



VIENNA SYMPHONIC LIBRARY

# **Vienna Instruments**

# **Solo Strings I & II**

**Mapping Documentation**

**Violin**

**Viola**

**Cello**

**Double Bass**



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## Introduction

This document contains the mapping information for the Solo Strings Collections of Vienna Instruments. You will find in it a comprehensive survey of the articulations/patches for the Standard and the Extended Libraries of each instrument, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset in the Collection.

## Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

**Major and minor runs** are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

## Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

**A/B switching** normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

**Speed controller switches** naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller settings in the **Map Control** tab of the *Vienna Instruments* player's Advanced View, and save the result in your Custom Matrix folder.

## Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 1–12; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

## Library updates

If you purchased your Instrument Collection via download or on the *Vienna Hard Drive*, all previous library updates will already be included; if you own a DVD Collection, you can download the updates from your personal User Area. A general description of *Vienna Instruments PRO 2* Matrices and Presets included in these updates can be found in the Appendix "Vienna Instruments PRO 2 Matrices and Presets" on page 169.

# Abbreviations

## Instruments

Abbreviation	English	German
VI	Violin	Violine
VA	Viola	Viola
VC	Cello	Cello
DB	Double bass	Kontrabass

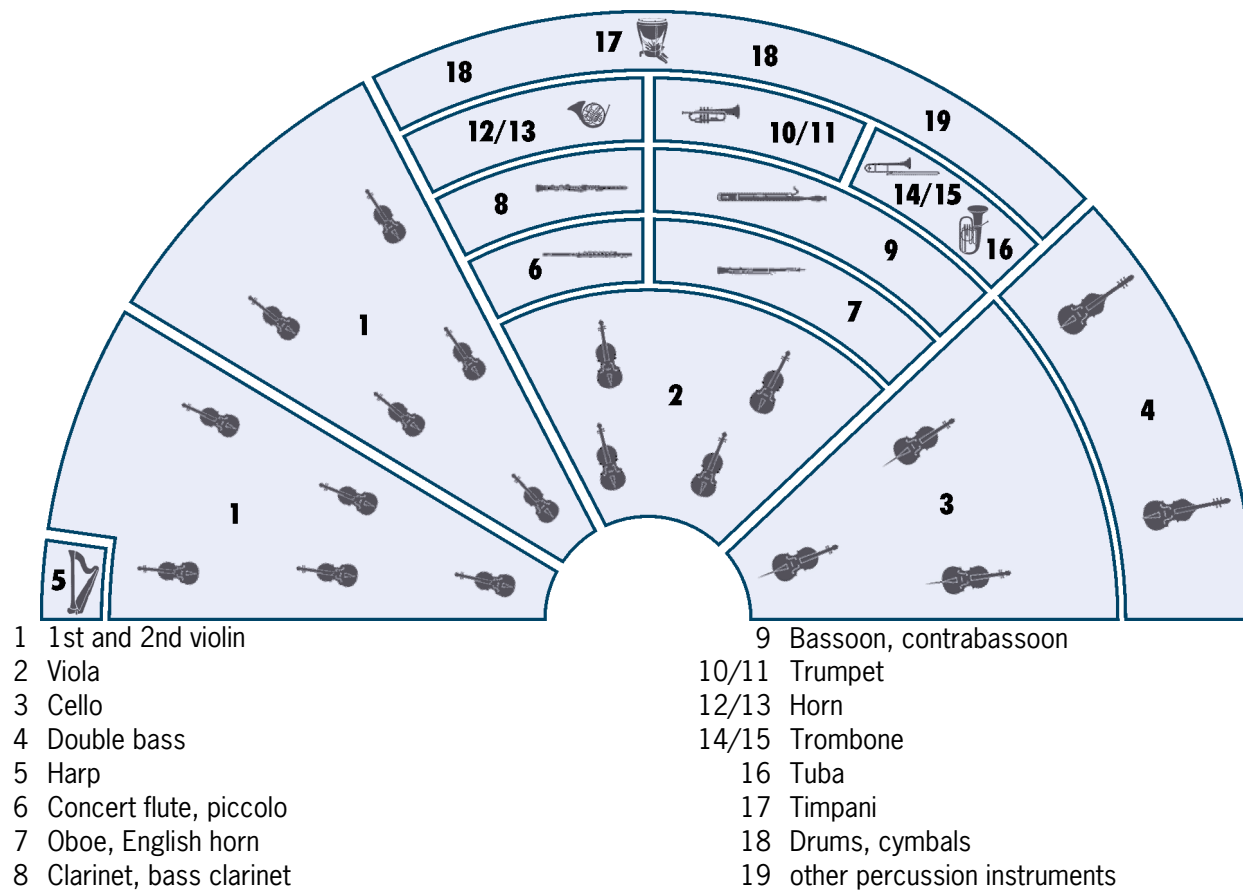
## Articulations and other abbreviations

Abbreviation	Meaning	Abbreviation	Meaning
150, 160, ...	150, 160, ... BPM (beats per minute)	mi	minor
1s, 2s, ...	tone length 1 sec., 2 sec., ...	noVib	without vibrato
acc	accelerando	perf-rep	repetition performance
bow	bow vibrato	pizz	pizzicato
cre	crescendo	pon	ponticello
dim	diminuendo	por	portato
dyn	dynamics (crescendo and diminuendo)	porta	portamento
dyn5, dyn9	dynamics, 5/9 repetitions	run	octave run
fa	fast	sl	slow
fA	fast attack	spi, spic	spiccato
fA_auto	attack automation (normal/fast attack)	sta, stac	staccato
fast-rep	fast repetitions	str	strong
gliss	glissando	sul	on the same string
harm	harmonics (flageolet)	sus	sustained
harm-art	artificial harmonics	tas	sul tasto
harm-nat	natural harmonics	trem	tremolo
leg	legato	Vib	with vibrato
ma	major	Vib-down	fading vibrato
marc	marcato	Vib-espr	vibrato espressivo
me	medium	Vib-progr	progressive vibrato
		XF	cell crossfade Matrix



## The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



## Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

# Solo Strings I

# Articulations

Instrument/Group	Level 1 (Standard) content	Level 2 (Extended) content
<b>01 Violin solo</b>		
<b>01 SHORT + LONG NOTES</b>	Staccato, short détaché, long détaché with vibrato, sustained with vibrato, marcato	Long détaché without vibrato, sustained with progressive, fading, and without vibrato, espressivo
<b>02 DYNAMICS</b>	Fortepiano and sforzato	Medium and strong crescendo and diminuendo with vibrato (1.5, 3, and 4 sec.), medium crescendo and diminuendo without vibrato (1.5 and 3 sec.), crescendo-diminuendo (2 and 4 sec.), sforzatissimo
<b>03 TREMOLO + TRILLS</b>	Tremolo sustained; trills half and whole tone	Tremolo crescendo and diminuendo (1.5 and 3 sec.); trills half and whole tone dynamics, trills accelerando normal and dynamics
<b>04 PIZZ + LEGNO</b>	Pizzicato normal and snap (Bartók)	Pizzicato secco, col legno.
<b>05 HARMONICS</b>	Artificial harmonics: Staccato, sustained	Artificial harmonics: Repetition performances glissando. Natural harmonics: Sustained, repetition performances, glissando.
<b>06 PONTICELLO</b>	Staccato, sustained, tremolo	Détaché, sforzato, sforzatissimo, repetition performances normal and dynamics.
<b>07 TASTO</b>		Staccato, détaché, sustained, sforzato, tremolo.
<b>10 PERF INTERVAL</b>	Legato, portamento	Legato on the same string, with progressive vibrato, zigane (gipsy), détaché, marcato, and spiccato
<b>11 PERF INTERVAL FAST</b>	Legato	Marcato, spiccato, and harsh
<b>12 PERF TRILL</b>		Trills, legato, minor 2nd to 4th
<b>13 PERF REPETITION</b>	Legato slow, staccato, spiccato	Legato fast, bow vibrato slow and fast, portato slow/medium/fast, and harsh; dynamics for all articulations
<b>14 FAST REPETITION</b>		Normal and dynamics, speeds from 150 to 200 BPM Ricochet – the bow is cast onto the string and rebounding: normal with 150 to 190 and 210 BPM, 3 quick repetitions, accelerando, ritardando
<b>15 GRACE NOTES</b>		Grace notes, half and whole tone, slow and fast "Zigane" style grace notes, minor 2nd to major 3rd
<b>16 GLISSANDI</b>	Medium and fast octave glissandos, up and down	Glissandos on every string
<b>17 SCALE RUNS</b>		Octave runs, legato and spiccato, major and minor sharp from C to B on every note of the scale; chromatic and whole tone; 200 BPM

Instrument/Group	Level 1 (Standard) content	Level 2 (Extended) content
<b>02 Viola solo</b>		
<b>01 SHORT + LONG NOTES</b>	Staccato, short and long détaché, sustained with vibrato, marcato	Sustained with progressive, fading, and without vibrato, espressivo
<b>02 DYNAMICS</b>	Fortepiano, sforzato	Medium crescendo and diminuendo with and without vibrato (1.5 and 3 sec.), strong crescendo and diminuendo with vibrato (1.5, 3, and 4 sec.), crescendo-diminuendo (2 and 4 sec.), sforzatissimo
<b>03 TREMOLO + TRILLS</b>	Tremolo sustained, trills half and whole tone	Tremolo crescendo and diminuendo (1.5 and 3 sec.), trills constant speed dynamics, accelerando normal and dynamics.
<b>04 PIZZ + LEGNO</b>	Pizzicato normal and snap (Bartók)	Col legno.
<b>05 HARMONICS</b>	Artificial harmonics staccato and sustained	Artificial harmonics repetition performances; Natural harmonics sustained, repetition performances, glissando
<b>06 PONTICELLO</b>	Staccato, sustained, tremolo	Détaché, sforzato, sforzatissimo, repetition performances normal and dynamics
<b>07 TASTO</b>		Staccato, détaché, sustained, sforzato, tremolo.
<b>10 PERF INTERVAL</b>	Legato, portamento	Legato on the same string, with progressive vibrato, zigane (gipsy), marcato, and spiccato
<b>11 PERF INTERVAL FAST</b>	Legato	Marcato, spiccato, and harsh
<b>12 PERF TRILL</b>		Trills, legato, minor 2nd to 4th
<b>13 PERF REPETITION</b>	Legato slow, staccato, spiccato	Legato fast, portato, harsh; dynamics for all articulations
<b>14 FAST REPETITION</b>		9 repetitions, normal and dynamics, speeds from 150 to 190 BPM. Ricochet – the bow is cast onto the string and rebounding: normal with 150 to 190 and 210 BPM, 3 quick repetitions, accelerando, ritardando
<b>15 GRACE NOTES</b>		Grace notes, half and whole tone; zigane grace notes, minor 2nd to major 3rd
<b>16 GLISSANDI</b>	Octave glissandos, up and down	Glissandos on every string
<b>03 Cello solo</b>		
<b>01 SHORT + LONG NOTES</b>	Staccato, short détaché, sustained with vibrato, marcato	Long détaché, sustained with progressive, fading, and without vibrato, espressivo
<b>02 DYNAMICS</b>	Fortepiano and sforzato	Medium crescendo and diminuendo with and without vibrato (1.5 and 3 sec.), strong crescendo and diminuendo with vibrato (1.5, 3, and 4 sec.), crescendo-diminuendo (2 and 4 sec.), and sforzatissimo

Instrument/Group	Level 1 (Standard) content	Level 2 (Extended) content
<b>03 TREMOLO + TRILLS</b>	Tremolo sustained, trills half and whole tone	Tremolo crescendo and diminuendo (1.5 and 3 sec.), trills half and whole tone dynamics, accelerando normal and dynamics.
<b>04 PIZZ + LEGNO</b>	Pizzicato normal and snap (Bartók)	Pizzicato secco, col legno.
<b>05 HARMONICS</b>	Artificial harmonics staccato, sustained	Artificial harmonics repetition performances; natural harmonics sustained, repetition performances, glissando
<b>06 PONTICELLO</b>	Staccato, sustained, tremolo	Détaché, sforzato, sforzatissimo, repetition performances normal and dynamics.
<b>07 TASTO</b>		Staccato, détaché, sustained, sforzato, tremolo.
<b>10 PERF INTERVAL</b>	Legato, portamento	Legato on the same string, with progressive vibrato, zigane (gipsy), marcato, and spiccato
<b>11 PERF INTERVAL FAST</b>	Legato	Marcato, spiccato, and harsh
<b>12 PERF TRILL</b>		Trills, legato, minor 2nd to major 3rd.
<b>13 PERF REPETITION</b>	Legato slow, staccato, spiccato	Legato fast, bow vibrato, portato, and harsh; dynamics for all articulations
<b>14 FAST REPETITION</b>		9 repetitions, normal and dynamics, speeds from 140 to 180 BPM Ricochet; normal with 150 to 190 and 210 BPM, 3 quick repetitions, accelerando, ritardando
<b>15 GRACE NOTES</b>		Grace notes, half and whole tone; zigane grace notes, minor 2nd to major 3rd.
<b>16 GLISSANDI</b>	Medium and fast octave glissandos, up and down	Glissandos on every string
<b>04 Bass solo</b>		
<b>01 SHORT + LONG NOTES</b>	Staccato, short détaché, sustained with vibrato, marcato	Long détaché, sustained with progressive, fading, and without vibrato
<b>02 DYNAMICS</b>	Fortepiano and sforzato	Medium crescendo and diminuendo without vibrato (1.5 and 3 sec.), strong crescendo and diminuendo with vibrato (1.5, 3, and 4 sec.), crescendo-diminuendo (2 and 4 sec.), sforzatissimo
<b>03 TREMOLO + TRILLS</b>	Tremolo sustained, trills half and whole tone	Tremolo crescendo and diminuendo (1.5 and 3 sec.), trills half and whole tone dynamics
<b>04 PIZZ + LEGNO</b>	Pizzicato, normal and snap (Bartók)	Col legno.
<b>05 HARMONICS</b>	Artificial harmonics staccato, sustained	Artificial harmonics repetition performances, natural harmonics sustained, repetition performances, glissando.
<b>06 PONTICELLO</b>	Staccato, sustained, tremolo	Détaché, sforzato, sforzatissimo, repetition performances normal and dynamics
<b>07 TASTO</b>		Staccato, détaché, sustained, sforzato, tremolo

Instrument/Group	Level 1 (Standard) content	Level 2 (Extended) content
<b>10 PERF INTERVAL</b>	Legato, portamento	Marcato and spiccato
<b>11 PERF INTERVAL FAST</b>	Legato	Marcato, spiccato, and harsh
<b>12 PERF TRILL</b>		Trills, legato, minor to major 2nd
<b>13 PERF REPETITION</b>	Legato slow, staccato, spiccato	Legato fast, portato, harsh; dynamics for all articulations
<b>14 GLISSANDI</b>		Performance glissandos, up and down; medium and fast octave glissandos, up and down

# 01 Violin solo

## Description

The violin, as the smallest of the stringed instruments, is the soprano instrument of the violin family (violin, viola, cello). Since the Baroque era the strings – the most homogeneous of all instrument groups – have been the heart of the orchestra. Violins are always used in chorus and divided into 1st and 2nd violins. Modern string sections use 14 first and 12 second violins (in especially large orchestras 16 first and 14 second violins).

## Range and notation

The violin has a range of G3–A7 (harmonic D8).  
It is a non-transposing instrument and notated in treble clef.

## Sound characteristics

Full, lively, singing, eloquent, introspective, supernatural, sensuous, lustrous, bright, metallic, vibrant, clear, glassy, flute-like, shrill, brilliant, sparkling, calm, thin, whistling, round, pure, muffled, solemn, austere, dark, muted, open, sustaining, rough, wafting, soft, sweet, merry, dancing, veiled.

The 1st violins generally play the higher part, which is usually the main melody. The 2nd violins often play the part of “lower sisters”. They often play an octave below, darkening the overall timbre.

## Combination with other instruments

All stringed instruments form a group with a homogeneous overall sound and perform tasks ranging from the subtlest tonal effects to the most eloquent reinforcements of sound and from the greatest possible tonal compactness to the greatest possible diversity. The violins' pizzicato blends well with the harp.

Woodwinds, generally speaking, provide the strings with more volume and power, while the strings make the woodwinds more mellow, especially when playing in *unison*.

The tonal blend with brass instruments is not as desirable. Perhaps the horn blends most successfully with violins, especially in concert with the cellos.

## Patches

### 01 SHORT + LONG NOTES

Range: G3–A#7



**Level 1:** Staccato, short détaché, long détaché with vibrato, sustained with vibrato, marcato

**Level 2:** Long détaché without vibrato, sustained with progressive, fading, and without vibrato, espressivo

#### 01 VI\_staccato

Samples: 408 RAM: 25 MB **Level 1**

Staccato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

4 Alternations

#### 02 VI\_detache\_short

Samples: 408 RAM: 25 MB **Level 1**

Short détaché

4 velocity layers: 0–55 pp; 56–88 mf; 89–108 f; 109–127 ff

4 Alternations

#### 03 VI\_detache\_long\_Vib

Samples: 400 RAM: 25 MB **Level 1**

Long détaché, vibrato

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 f; 109–127 ff

4 Alternations

#### 04 VI\_detache\_long\_noVib

Samples: 408 RAM: 25 MB **Level 2**

Long détaché without vibrato

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 f; 109–127 ff

4 Alternations

#### 10 VI\_sus\_Vib

Samples: 753 RAM: 47 MB **Level 1**

Sustained, vibrato

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f

Release samples

#### 11 VI\_sus\_Vib\_fA

Samples: 403 RAM: 25 MB **Level 2**

Sustained, vibrato

Optimized attack for legato

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f

Release samples

#### 12 VI\_sus\_Vib\_fA\_auto

Samples: 903 RAM: 56 MB **Level 2**

Sustained, vibrato

Attack automation

Monophonic

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f

Release samples

#### 13 VI\_sus\_Vib-marc

Samples: 252 RAM: 15 MB **Level 1**

Sustained, vibrato, marcato

3 velocity layers: 0–88 mf; 89–108 f; 109–127 ff

Release samples



<b>14 VI_sus_Vib-espr</b> Sustained (4 sec.), vibrato, fortissimo, espressivo 1 velocity layer Release samples	<b>Samples: 151</b>	<b>RAM: 9 MB</b>	<b>Level 2</b>
<b>15 VI_sus_Vib-progr</b> Sustained, progressive vibrato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 602</b>	<b>RAM: 37 MB</b>	<b>Level 2</b>
<b>16 VI_sus_Vib-down</b> Sustained, diminishing vibrato 2 velocity layers: 0–88 mf; 89–127 f	<b>Samples: 50</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>17 VI_sus_noVib</b> Sustained, no vibrato 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 ff Release samples	<b>Samples: 458</b>	<b>RAM: 28 MB</b>	<b>Level 2</b>

**02 DYNAMICS****Range: G3–A#7****Level 1:** Fortepiano and sforzato**Level 2:** Medium and strong crescendo and diminuendo with vibrato (1.5, 3, and 4 sec.), medium crescendo and diminuendo without vibrato (1.5 and 3 sec.), crescendo-diminuendo (2 and 4 sec.), sforzatissimo

<b>01 VI_dyn-me_Vib_1'5s</b> Medium dynamics, 1.5 sec., vibrato 2 velocity layers: 0–88 p–mf/mf–p; 89–127 mf–f/f–mf AB switch: crescendo/diminuendo	<b>Samples: 200</b>	<b>RAM: 12 MB</b>	<b>Level 2</b>
<b>02 VI_dyn-me_Vib_3s</b> Medium dynamics, 3 sec., vibrato 2 velocity layers: 0–88 p–mf/mf–pp; 89–127 mf–ff/ff–mf AB switch: crescendo/diminuendo	<b>Samples: 200</b>	<b>RAM: 12 MB</b>	<b>Level 2</b>
<b>03 VI_dyn-me_Vib_4s</b> Medium dynamics, 4 sec., vibrato 2 velocity layers: 0–88 p–mf/mf–p; 89–127 mf–f/f–mf AB switch: crescendo/diminuendo	<b>Samples: 200</b>	<b>RAM: 12 MB</b>	<b>Level 2</b>
<b>04 VI_dyn-str_Vib_1'5s</b> Strong dynamics, 1.5 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 100</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>05 VI_dyn-str_Vib_3s</b> Strong dynamics, 3 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 100</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>

<b>06 VI_dyn-str_Vib_4s</b> Strong dynamics, 4 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 100</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>07 VI_dyn-me_noVib_1'5s</b> Medium dynamics, 1.5 sec., no vibrato 2 velocity layers: 0–88 p–mf/mf–p; 89–127 mf–ff/ff–mf AB switch: crescendo/diminuendo	<b>Samples: 204</b>	<b>RAM: 12 MB</b>	<b>Level 2</b>
<b>08 VI_dyn-me_noVib_3s</b> Medium dynamics, 3 sec., no vibrato 2 velocity layers: 0–88 p–mf/mf–p; 89–127 mf–ff/ff–mf AB switch: crescendo/diminuendo	<b>Samples: 204</b>	<b>RAM: 12 MB</b>	<b>Level 2</b>
<b>09 VI_pfp_Vib_2s</b> Crescendo-diminuendo, 2 sec., vibrato 2 velocity layers: 0–88 p; 89–127 mf	<b>Samples: 50</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>10 VI_pfp_Vib_4s</b> Crescendo-diminuendo, 4 sec., vibrato 2 velocity layers: 0–88 p; 89–127 mf	<b>Samples: 50</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>11 VI_fp_Vib</b> Fortepiano, vibrato 1 velocity layer	<b>Samples: 50</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
<b>12 VI_sfz_Vib</b> Sforzato, vibrato 1 velocity layer	<b>Samples: 50</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
<b>13 VI_sffz_Vib</b> Sforzatissimo, vibrato 1 velocity layer	<b>Samples: 50</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>

**03 TREMOLO + TRILLS****Range: G3–A#7**

- Level 1:** Tremolo sustained; trills half and whole tone
- Level 2:** Tremolo crescendo and diminuendo (1.5 and 3 sec.); trills half and whole tone dynamics, trills accelerando normal and dynamics

<b>01 VI_trem_sus</b> Tremolo sustained 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 ff Release samples	<b>Samples: 306</b>	<b>RAM: 19 MB</b>	<b>Level 1</b>
<b>02 VI_trem_sus_fA</b> Tremolo sustained Optimized attack for legato 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 ff Release samples	<b>Samples: 306</b>	<b>RAM: 19 MB</b>	<b>Level 2</b>

<b>03 VI_trem_sus_fa_auto</b> Tremolo sustained Attack automation Monophonic 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 ff Release samples		<b>Samples: 459</b>	<b>RAM: 28 MB</b>	<b>Level 1</b>
<b>04 VI_trem_dyn_1'5s</b> Tremolo dynamics, 1.5 sec. 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 100</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>05 VI_trem_dyn_3s</b> Tremolo dynamics, 3 sec. 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 100</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>10 VI_trill_1</b> Trills: Half tone 2 velocity layers: 0–88 p; 89–127 f Release samples		<b>Samples: 100</b>	<b>RAM: 6 MB</b>	<b>Level 1</b>
<b>11 VI_trill_2</b> Trills: Whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples		<b>Samples: 100</b>	<b>RAM: 6 MB</b>	<b>Level 1</b>
<b>12 VI_trill_1_dyn</b> Trills: Half tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 50</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>13 VI_trill_2_dyn</b> Trills: Whole tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 50</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>14 VI_trill-acc_1</b> Trills: Accelerando, half tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: G3–D#7</b>	<b>Samples: 94</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>15 VI_trill-acc_2</b> Trills: Accelerando, whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples		<b>Samples: 94</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>16 VI_trill-acc_1_dyn</b> Trills: Accelerando, half tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: G3–D#7</b>	<b>Samples: 44</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>

**17 VI\_trill-acc\_2\_dyn****Samples: 50****RAM: 3 MB****Level 2**

Trills: Accelerando, whole tone, dynamics

1 velocity layer

AB switch: crescendo/diminuendo

**04 PIZZ + LEGNO****Range: G3–A#7****Level 1:** Pizzicato normal and snap (Bartók)**Level 2:** Pizzicato secco, col legno.**01 VI\_pizz****Samples: 204****RAM: 12 MB****Level 1**

Pizzicato

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

**02 VI\_pizz\_secco****Samples: 204****RAM: 12 MB****Level 2**

Pizzicato secco

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

**03 VI\_pizz\_snap****Samples: 100****RAM: 6 MB****Level 1**

Snap pizzicato

1 velocity layer

4 Alternations

**04 VI\_col-legno****Samples: 104****RAM: 6 MB****Level 2**

Col legno

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

**05 HARMONICS****Range: G4–D7****Level 1:** Artificial harmonics: Staccato, sustained**Level 2:** Artificial harmonics: Repetition performances glissando. Natural harmonics: Sustained, repetition performances, glissando.

Harmonics patches are mapped an octave lower than they sound.

**01 VI\_harm-art\_stac****Samples: 58****RAM: 3 MB****Level 1**

Artificial harmonics: Staccato

1 velocity layer

2 Alternations

**02 VI\_harm-art\_sus****Samples: 120****RAM: 7 MB****Level 1**

Artificial harmonics: Sustained

2 velocity layers: 0–88 p; 89–127 f

Release samples

**03 VI\_harm-art\_perf-rep****Samples: 75****RAM: 4 MB****Level 2**

Artificial harmonics: Repetition performances

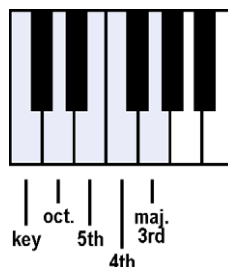
1 velocity layer

**04 VI\_harm-art\_gliss****Range: C3–G6****Samples: 20****RAM: 1 MB****Level 2**

Artificial harmonics: Glissandos on every string, upward  
1 velocity layer

**Mapping:**

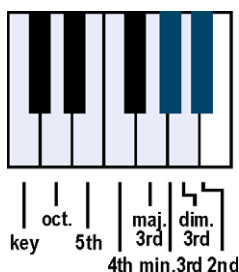
C – key note to 1st harmonic (octave); D – 2nd (+5th); E – 3rd (+4th); F – 4th (+major 3rd);  
G – 5th (+minor 3rd)  
C3–G3: G string; C4–G4: D string; C5–G5: A string; C6–G6: E string

**11 VI\_harm-nat\_sus****Range: C3–A#6****Samples: 128****RAM: 8 MB****Level 2**

Natural harmonics: Sustained notes on every string, from fundamental to 7th harmonic  
2 velocity layers: 0–88 p; 89–127 f  
Release samples

**Mapping:**

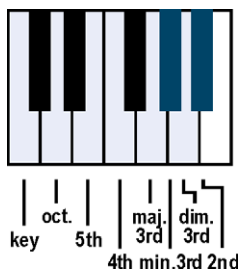
C – key note; D – 1st (octave); E – 2nd (5th); F – 3rd (4th); G – 4th (maj. 3rd); G# – 5th (min. 3rd); A – 6th (dim. 3rd); A# – 7th (2nd)  
C3–A#3: G string; C4–A#4: D string; C5–A#5: A string; C6–A#6: E string

**12 VI\_harm-nat\_perf-rep****Range: C3–A#6****Samples: 160****RAM: 10 MB****Level 2**

Natural harmonics: Repetition performances on every string, from fundamental to 7th harmonic  
1 velocity layer

**Mapping:**

C – key note; D – 1st (octave); E – 2nd (5th); F – 3rd (4th); G – 4th (maj. 3rd); G# – 5th (min. 3rd); A – 6th (dim. 3rd); A# – 7th (2nd)  
C3–A#3: G string; C4–A#4: D string; C5–A#5: A string; C6–A#6: E string

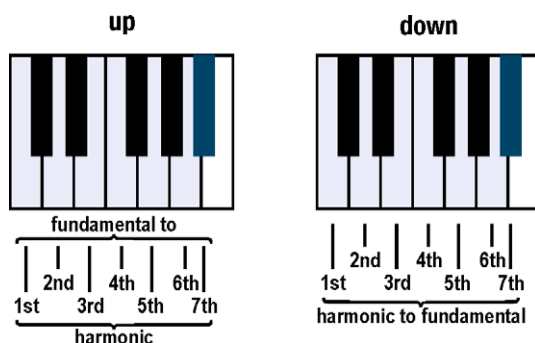
**13 VI\_harm-nat\_gliss****Range: C3–A#6****Samples: 56****RAM: 3 MB****Level 2**

Natural harmonics: Glissandos on every string, from fundamental to 1st, 2nd, etc. harmonic; reverse for downward glissandos  
1 velocity layer  
AB switch: up/down

**Mapping:**

C – key note to 1st (octave); D – to 2nd (+5th); E – to 3rd (+4th); F – to 4th (+maj 3rd); G – to 5th (+min. 3rd); A – to 6th (+dim. 3rd); A# – to 7th (+2nd)

C3–A#3: G string; C4–A#4: D string; C5–A#5: A string; C6–A#6: E string

**06 PONTICELLO****Range: G3–A#7**

Ponticello – bowed near the bridge, giving a louder, brighter sound.

**Level 1:** Staccato, sustained, tremolo

**Level 2:** Détaché, sforzato, sforzatissimo, repetition performances normal and dynamics.

**01 VI\_pon\_staccato****Samples: 228 RAM: 14 MB Level 1**

Ponticello staccato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

2 Alternations

**02 VI\_pon\_detache****Samples: 228 RAM: 14 MB Level 2**

Ponticello détaché

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

2 Alternations

**03 VI\_pon\_sus****Samples: 228 RAM: 14 MB Level 1**

Ponticello sustained

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

**04 VI\_pon\_sus\_fA****Samples: 228 RAM: 14 MB Level 2**

Ponticello sustained

Optimized attack for legato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

**05 VI\_pon\_sus\_fA\_auto****Samples: 342 RAM: 21 MB Level 2**

Ponticello sustained

Attack automation

Monophonic

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

**06 VI\_pon\_sfz****Samples: 38 RAM: 2 MB Level 2**

Ponticello sforzato

1 velocity layer

<b>07 VI_pon_sffz</b> Ponticello sforzatissimo 1 velocity layer	<b>Samples: 38</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>08 VI_pon_trem</b> Ponticello tremolo 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 234</b>	<b>RAM: 14 MB</b>	<b>Level 1</b>
<b>09 VI_pon_trem_fA</b> Ponticello tremolo Optimized attack for legato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 234</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>10 VI_pon_trem_fA_auto</b> Ponticello tremolo Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 351</b>	<b>RAM: 21 MB</b>	<b>Level 1</b>
<b>11 VI_pon_perf-rep_leg</b> Repetition performances: Ponticello legato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 260</b>	<b>RAM: 16 MB</b>	<b>Level 2</b>
<b>12 VI_pon_perf-rep_dyn_leg</b> Repetition performances: Ponticello legato, dynamics 5 repetitions, AB switch crescendo/diminuendo 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 260</b>	<b>RAM: 16 MB</b>	<b>Level 2</b>

**07 TASTO****Range: G3–A#7**

Sul tasto or flautando – bowed near the fingerboard, resulting in a softer, muffled sound

**Level 2:** Staccato, détaché, sustained, sforzato, tremolo.


<b>01 VI_tas_staccato</b> Sul tasto staccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations	<b>Range: G3–A7</b>	<b>Samples: 234</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>02 VI_tas_detache</b> Sul tasto détaché 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations		<b>Samples: 228</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>03 VI_tas_sus</b> Sul tasto sustained 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples		<b>Samples: 228</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>

<b>04 VI_tas_sus_fA</b> Sul tasto sustained Optimized attack for legato 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 228</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>05 VI_tas_sus_fA_auto</b> Sul tasto sustained Attack automation Monophonic 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 2</b>
<b>06 VI_tas_sfz</b> Sul tasto sforzato 1 velocity layer	<b>Samples: 37</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>07 VI_tas_trem</b> Sul tasto tremolo 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 228</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>08 VI_tas_trem_fA</b> Sul tasto tremolo Optimized attack for legato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 228</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>09 VI_tas_trem_fA_auto</b> Sul tasto tremolo Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 2</b>

**10 PERF INTERVAL****Range: G3–D7****Level 1:** Legato, portamento**Level 2:** Legato on the same string, with progressive vibrato, zigane (gipsy), détaché, marcato, and spiccato

<b>01 VI_perf-legato</b> Legato Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Samples: 1143</b>	<b>RAM: 71 MB</b>	<b>Level 1</b>
<b>02 VI_perf-legato_sul</b> Legato on the same string Monophonic 2 velocity layers: 0–88 mp; 89–127 f Release samples	<b>Samples: 1076</b>	<b>RAM: 67 MB</b>	<b>Level 2</b>



<b>03 VI_perf-legato_Vib-progr</b> Legato, forte, progressive vibrato Monophonic 1 velocity layer Release samples	<b>Samples: 553</b>	<b>RAM: 34 MB</b>	<b>Level 2</b>
<b>04 VI_perf-legato_zigane</b> Zigane (gipsy) Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Samples: 665</b>	<b>RAM: 41 MB</b>	<b>Level 2</b>
<b>05 VI_perf-portamento</b> Portamento Monophonic 2 velocity layers: 0–88 mp; 89–127 f Release samples	<b>Samples: 1076</b>	<b>RAM: 67 MB</b>	<b>Level 1</b>
<b>06 VI_perf-detache</b> détaché Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Samples: 1057</b>	<b>RAM: 66 MB</b>	<b>Level 2</b>
<b>07 VI_perf-marcato</b> Marcato Monophonic 2 velocity layers: 0–88 mp; 89–127 f Release samples	<b>Samples: 1076</b>	<b>RAM: 67 MB</b>	<b>Level 2</b>
<b>08 VI_perf-spiccato</b> Spiccato Monophonic 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 1200</b>	<b>RAM: 75 MB</b>	<b>Level 2</b>
<b>11 PERF INTERVAL FAST</b> <b>Level 1:</b> Legato <b>Level 2:</b> Marcato, spiccato, and harsh			
<b>01 VI_perf-legato_fa</b> Legato, fast Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Samples: 1379</b>	<b>RAM: 86 MB</b>	<b>Level 1</b>
<b>02 VI_perf-marcato_fa</b> Marcato, fast Monophonic 2 velocity layers: 0–88 mp; 89–127 f Release samples	<b>Samples: 1631</b>	<b>RAM: 101 MB</b>	<b>Level 2</b>

**03 VI\_perf-spiccato\_fa****Samples: 1400 RAM: 87 MB****Level 2**

Spiccato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

**04 VI\_perf-harsh\_fa****Range: G3–C7****Samples: 644 RAM: 40 MB****Level 2**

Harsh, fast

Monophonic

2 velocity layers: 0–88 f; 89–127 ff

**12 PERF TRILL****Range: G3–D7****Level 2:** Trills, legato, minor 2nd to 4th**01 VI\_perf-trill\_leg****Samples: 3383 RAM: 211 MB****Level 2**

Trills, legato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**13 PERF REPETITION****Range: G3–A#7****Level 1:** Legato slow, staccato, spiccato**Level 2:** Legato fast, bow vibrato slow and fast, portato slow/medium/fast, and harsh; dynamics for all articulations**01 VI\_perf-rep\_leg-sl****Samples: 375 RAM: 23 MB****Level 1**

Legato, slow

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

**02 VI\_perf-rep\_leg-fa****Samples: 390 RAM: 24 MB****Level 2**

Legato, fast

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

**03 VI\_perf-rep\_bow-sl****Samples: 390 RAM: 24 MB****Level 2**

Bow vibrato, slow

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

**04 VI\_perf-rep\_bow-fa****Samples: 390 RAM: 24 MB****Level 2**

Bow vibrato, fast

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

**05 VI\_perf-rep\_por-sl****Samples: 375 RAM: 23 MB****Level 2**

Portato, slow

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

**06 VI\_perf-rep\_por-me****Samples: 375 RAM: 23 MB****Level 2**

Portato, medium

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

<b>07 VI_perf-rep_por-fa</b> Portato, fast 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f	<b>Samples: 702</b>	<b>RAM: 43 MB</b>	<b>Level 2</b>
<b>08 VI_perf-rep_sta</b> Staccato 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 ff	<b>Samples: 702</b>	<b>RAM: 43 MB</b>	<b>Level 1</b>
<b>09 VI_perf-rep_spi</b> Spiccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f	<b>Samples: 675</b>	<b>RAM: 42 MB</b>	<b>Level 1</b>
<b>10 VI_perf-rep_harsh</b> Harsh 2 velocity layers: 0–88 f; 89–127 ff	<b>Samples: 450</b>	<b>RAM: 28 MB</b>	<b>Level 2</b>
<b>21 VI_perf-rep_dyn5_leg-sl</b> Legato dynamics, slow, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 250</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>22 VI_perf-rep_dyn5_leg-fa</b> Legato dynamics, fast, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 260</b>	<b>RAM: 16 MB</b>	<b>Level 2</b>
<b>23 VI_perf-rep_dyn5_bow-sl</b> Bow vibrato dynamics, slow, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 260</b>	<b>RAM: 16 MB</b>	<b>Level 2</b>
<b>24 VI_perf-rep_dyn5_bow-fa</b> Bow vibrato dynamics, fast, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 260</b>	<b>RAM: 16 MB</b>	<b>Level 2</b>
<b>25 VI_perf-rep_dyn5_por-sl</b> Portato dynamics, slow, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 250</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>26 VI_perf-rep_dyn5_por-me</b> Portato dynamics, medium, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 250</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>27 VI_perf-rep_dyn9_por-fa</b> Portato dynamics, fast, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 468</b>	<b>RAM: 29 MB</b>	<b>Level 2</b>
<b>28 VI_perf-rep_dyn9_sta</b> Staccato dynamics, 9 repetitions 1 velocity layer	<b>Samples: 468</b>	<b>RAM: 29 MB</b>	<b>Level 2</b>

AB switch: crescendo/diminuendo

<b>29 VI_perf-rep_dyn9_spi</b> Spiccato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 450</b>	<b>RAM: 28 MB</b>	<b>Level 2</b>
<b>30 VI_perf-rep_dyn9_harsh</b> Harsh dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 450</b>	<b>RAM: 28 MB</b>	<b>Level 2</b>

**14 FAST REPETITION****Range: G3–A#7**

**Level 2:** Normal and dynamics, speeds from 150 to 200 BPM  
 Ricochet – the bow is cast onto the string and rebounding: normal with 150 to 190 and 210 BPM, 3 quick repetitions, accelerando, ritardando

<b>01 VI_fast-rep_150 (160/170/180/190/200)</b> Staccato, 9 repetitions, 150, 160, 170, 180, 190, 200 BPM 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 156</b>	<b>RAM: 9 MB</b>	<b>Level 2</b>
<b>11 VI_fast-rep_150_dyn (160/170/180/190/200)</b> Staccato dynamics, 9 repetitions, 150, 160, 170, 180, 190, 200 BPM 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 52</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>21 VI_ricochet_150 (160/170/180/190/210)</b> Ricochet, mezzoforte, 5 repetitions, 150, 160, 170, 180, 190, 210 BPM 1 velocity layer Release samples	<b>Samples: 50</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>31 VI_ricochet_a3</b> Ricochet, mezzoforte, 3 repetitions 1 velocity layer	<b>Samples: 25</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>32 VI_ricochet_accel</b> Ricochet accelerando, 9 repetitions 1 velocity layer	<b>Samples: 25</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>33 VI_ricochet_ritard</b> Ricochet ritardando, 9 repetitions 1 velocity layer	<b>Samples: 25</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>

**15 GRACE NOTES****Range: G3–G#7**

**Level 2:** Grace notes, half and whole tone, slow and fast  
 "Zigane" style grace notes, minor 2nd to major 3rd

<b>01 VI_grace-1_sl</b> Grace notes, slow, half tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: G3–G7</b>	<b>Samples: 183</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>02 VI_grace-2_sl</b> Grace notes, slow, whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down		<b>Samples: 183</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>03 VI_grace-1_fa</b> Grace notes, fast, half tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down		<b>Samples: 183</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>04 VI_grace-2_fa</b> Grace notes, fast, whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down		<b>Samples: 183</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>11 VI_grace-zigane-1</b> Grace notes, zigane, half tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down		<b>Samples: 183</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>12 VI_grace-zigane-2</b> Grace notes, zigane, whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: G3–A7</b>	<b>Samples: 183</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>13 VI_grace-zigane-3</b> Grace notes, zigane, minor 3rd 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down		<b>Samples: 179</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>14 VI_grace-zigane-4</b> Grace notes, zigane, major 3rd 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: G3–A7</b>	<b>Samples: 179</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>



## 16 GLISSANDI

**Level 1:** Medium and fast octave glissandos, up and down

**Level 2:** Glissandos on every string

<b>01 VI_perf-gliss_G</b> Phrase performances: Glissando, G string Monophonic 1 velocity layer Release samples	<b>Range: G3–B4</b>	<b>Samples: 276</b>	<b>RAM: 17 MB</b>	<b>Level 2</b>
<b>02 VI_perf-gliss_D</b> Phrase performances: Glissando, D string Monophonic 1 velocity layer Release samples	<b>Range: C3–F#5</b>	<b>Samples: 279</b>	<b>RAM: 17 MB</b>	<b>Level 2</b>
<b>03 VI_perf-gliss_A</b> Phrase performances: Glissando, A string Monophonic 1 velocity layer Release samples	<b>Range: G4–C#6</b>	<b>Samples: 278</b>	<b>RAM: 17 MB</b>	<b>Level 2</b>
<b>04 VI_perf-gliss_E</b> Phrase performances: Glissando, E string Monophonic 1 velocity layer Release samples	<b>Range: D5–C#7</b>	<b>Samples: 396</b>	<b>RAM: 24 MB</b>	<b>Level 2</b>
<b>05 VI_octav-gliss_me</b> Phrases: Octave glissando, medium Please note that upward glissandos can be played to an octave below the upper play range, downward glissandos to an octave above the lower play range. 1 velocity layer AB switch: up/down	<b>Range: G3–D7</b>	<b>Samples: 42</b>	<b>RAM: 2 MB</b>	<b>Level 1</b>
<b>06 VI_octav-gliss_fa</b> Phrases: Octave glissando, fast Please note that upward glissandos can be played to an octave below the upper play range, downward glissandos to an octave above the lower play range. 1 velocity layer AB switch: up/down	<b>Range: G3–D7</b>	<b>Samples: 60</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>

## 17 SCALE RUNS

**Level 2:** Octave runs, legato and spiccato, major and minor sharp from C to B on every note of the scale; chromatic and whole tone; 200 BPM.

Please note that upward runs can be played only to an octave below the upper play range, downward runs to an octave above the lower play range. The octave runs are mapped diatonically according to their scale. For the playing ranges and mappings of individual scales, please see the appendix.

**Legato major****Range: G3–A#6****01 VI run-leg\_C-ma (through to B-ma)****Samples: 64****RAM: 4 MB****Level 2**

Octave runs, legato, 16ths at 200 BPM, C to B major

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

**Legato minor****Range: G3–A#6****01 VI run-leg\_C-mi (through to B-mi)****Samples: 64****RAM: 4 MB****Level 2**

Octave runs, legato, 16ths at 200 BPM, C to B minor

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

**Legato special****Range: G3–C7****01 VI\_run-leg\_chromatic****Samples: 56****RAM: 3 MB****Level 2**

Octave runs, legato, 16ths at 200 BPM, chromatic. The upward runs go up to A5 (starting note).

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

**02 VI\_run-leg\_whole****Samples: 56****RAM: 3 MB****Level 2**

Octave runs, legato, 16ths at 200 BPM, whole tone. Mapped chromatically. The upward runs go up to A5 (starting note).

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

**Spiccato major****Range: G3–A#6****01 VI run-spic\_C-ma (through to B-ma)****Samples: 32****RAM: 2 MB****Level 2**

Octave runs, spiccato, mezzoforte, 16ths at 140 BPM, C to B major

1 velocity layer

AB switch: up/down

**Spiccato minor****Range: G3–A#6****01 VI\_run-spic\_C-mi (through to B-mi)****Samples: 32****RAM: 2 MB****Level 2**

Octave runs, spiccato, mezzoforte, 16ths at 140 BPM, C to B minor

1 velocity layer

AB switch: up/down

**Spiccato special****Range: G3–C7****01 VI\_run-spic\_chromatic****Samples: 28****RAM: 1 MB****Level 2**

Octave runs, spiccato, mezzoforte, 16ths at 140 BPM, chromatic  
 1 velocity layer  
 AB switch: up/down

**02 VI\_run-spic\_whole****Samples: 28****RAM: 1 MB****Level 2**

Octave runs, spiccato, mezzoforte, 16ths at 140 BPM, whole tone  
 1 velocity layer  
 AB switch: up/down

**98 RESOURCES**

**Level 2:** Isolated dynamics repetitions, single layer long notes, interval performance speed variations.

**01 Perf Rep dyn****Range: G3–A#7****01 VI\_rep\_cre5\_leg-sl-1 (2/3/4/5)****Samples: 25****RAM: 1 MB****Level 2**

Extracted repetitions: Legato slow, crescendo, 1st to 5th note  
 1 velocity layer

**01 VI\_rep\_dim5\_leg-sl-1 (2/3/4/5)****Samples: 25****RAM: 1 MB****Level 2**

Extracted repetitions: Legato slow, diminuendo, 1st to 5th note  
 1 velocity layer

**02 VI\_rep\_cre5\_leg-fa-1 (2/3/4/5)****Samples: 26****RAM: 1 MB****Level 2**

Extracted repetitions: Legato fast, crescendo, 1st to 5th note  
 1 velocity layer

**02 VI\_rep\_dim5\_leg-fa-1 (2/3/4/5)****Samples: 26****RAM: 1 MB****Level 2**

Extracted repetitions: Legato fast, diminuendo, 1st to 5th note  
 1 velocity layer

**03 VI\_rep\_cre5\_por-sl-1 (2/3/4/5)****Samples: 25****RAM: 1 MB****Level 2**

Extracted repetitions: Portato slow, crescendo, 1st to 5th note  
 1 velocity layer

**03 VI\_rep\_dim5\_por-sl-1 (2/3/4/5)****Samples: 25****RAM: 1 MB****Level 2**

Extracted repetitions: Portato slow, diminuendo, 1st to 5th note  
 1 velocity layer

**04 VI\_rep\_cre5\_por-me-1 (2/3/4/5)****Samples: 25****RAM: 1 MB****Level 2**

Extracted repetitions: Portato medium, crescendo, 1st to 5th note  
 1 velocity layer

**04 VI\_rep\_dim5\_por-me-1 (2/3/4/5)****Samples: 25****RAM: 1 MB****Level 2**

Extracted repetitions: Portato medium, diminuendo, 1st to 5th note  
 1 velocity layer



<b>05 VI_rep_cre9_por-fa-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Portato fast, crescendo, 1st to 9th note 1 velocity layer	<b>Samples: 26</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>05_VI_rep_dim9_por-fa-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Portato fast, diminuendo, 1st to 9th note 1 velocity layer	<b>Samples: 26</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>06_VI_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Staccato, crescendo, 1st to 9th note 1 velocity layer	<b>Samples: 26</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>06_VI_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Staccato, diminuendo, 1st to 9th note 1 velocity layer	<b>Samples: 26</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>07_VI_rep_cre9_spi-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Spiccato, crescendo, 1st to 9th note 1 velocity layer	<b>Samples: 25</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>07_VI_rep_dim9_spi-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Spiccato, diminuendo, 1st to 9th note 1 velocity layer	<b>Samples: 25</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>08_VI_rep_cre9_harsh-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Harsh, crescendo, 1st to 9th note 1 velocity layer	<b>Samples: 25</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>08_VI_rep_dim9_harsh-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Harsh, diminuendo, 1st to 9th note 1 velocity layer	<b>Samples: 25</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>

**02 Long Notes - Single Layer****Range: G3–A#7**

<b>01 VI_sus_Vib-pp</b> Sustained, vibrato, pp 1 velocity layer Release samples	<b>Samples: 151</b>	<b>RAM: 9 MB</b>	<b>Level 2</b>
<b>02 VI_sus_Vib-mp</b> Sustained, vibrato, mp 1 velocity layer Release samples	<b>Samples: 150</b>	<b>RAM: 9 MB</b>	<b>Level 2</b>
<b>03 VI_sus_Vib-f</b> Sustained, vibrato, f 1 velocity layer Release samples	<b>Samples: 201</b>	<b>RAM: 12 MB</b>	<b>Level 2</b>
<b>04 VI_sus_Vib-ff</b> Sustained, vibrato, ff 1 velocity layer	<b>Samples: 251</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>

Release samples

**03 Perf Speed variation****Range: G3–D7****01 VI\_perf-legato\_me****Samples: 1189 RAM: 74 MB****Level 2**

Interval performances: Legato, medium speed

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**02 VI\_perf-marcato\_me****Samples: 1212 RAM: 75 MB****Level 2**

Interval performances: Marcato, medium speed

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

Release samples

**03 VI\_stac-spic****Range: G3–C8****Samples: 306 RAM: 19 MB****Level 2**

Single notes: Staccato/spiccato

3 velocity layers: 0–55 p; 56–88 mp; 89–127 f

**99 RELEASE**

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

# Matrices

## Matrix - LEVEL 1

### L1 VI Articulation Combi

Samples: 3869 RAM: 241 MB **Level 1**

Single note articulations: Normal, ponticello, artificial harmonics, glissandos, pizzicato

**Matrix switches:** Horizontal: Keyswitches, C1–A1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	stac	sus	fp	trem	trill half	pon.stac	pon.trem	harm.stac	med.gliss	pizz.
V2	dét. short	marc	sfz	trem auto	trill whole	pon.sus	pon.trem auto	harm.sus	fast gliss	snap pizz.

### L1 VI Perf-Legato Speed + porta

Samples: 2679 RAM: 167 MB **Level 1**

Interval performances: Legato slow and fast, portamento

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
V1	legato slow	legato fast
V2	portamento	legato fast

### L1 VI Perf-Repetitions Combi

Samples: 1752 RAM: 109 MB **Level 1**

Repetition performances: Slow legato, staccato, spiccato

**Matrix switches:** Vertical: Modwheel, 3 zones

	repetitions
V1	legato
V2	staccato
V3	spiccato

## Matrix - LEVEL 2 A - Advanced

### 01 VI Perf-Universal

Samples: 5762 RAM: 360 MB **Level 2**

Interval performances: Legato, marcato, spiccato; slow and fast

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones Vertical: Modwheel, 3 zones

	H1	H2	H3	H4
legato	slow	medium	medium	fast
marcato	slow	medium	medium	fast
spiccato	stac/spic	stac/spic	slow	fast

### 02 VI Perf-Legato - All

Samples: 3759 RAM: 234 MB **Level 2**

Interval performances: Legato straight, on one string, zigane, progressive vibrato, portamento

Monophonic

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
legato	normal	one string	zigane	prog.vibrato
portamento	%	%	%	%

**03 VI Perf-Trill Speed****Samples: 3940 RAM: 246 MB Level 2**

Multi interval performances: Legato and trills  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

**04 VI Perf-Trill Speed - Combi****Samples: 5207 RAM: 325 MB Level 2**

Multi interval performances: Legato, zigane, portamento, trills  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

	H1	H2
V1	legato	trills
V2	zigane	trills
V3	portamento	trills

**05 VI Short+Long notes - All****Samples: 3033 RAM: 189 MB Level 2**

Staccato, détaché short and long, sustained  
 Vibrato variations

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 5 zones

	C1	C#1	D1	D#1
V1	staccato	détaché short	détaché long	sustained vibrato
V2	%	%	%	no vibrato
V3	%	%	%	prog. vibrato
V4	%	%	%	marcato
V5	%	%	%	vib. down

**06 VI Perf-Harsh - Combi****Samples: 2031 RAM: 126 MB Level 2**

Sustained, vibrato variations, ponticello;all with harsh attack  
 Cell crossfade for vibrato/no vibrato sustain

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	sus-vib./no vib.	sus-progr.vib.	ponticello	harsh

**Matrix - LEVEL 2 B - Standard****11 VI Perf-Legato Speed****Samples: 1931 RAM: 120 MB Level 2**

Interval performances: Legato slow and fast  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	medium	fast

**12 VI Perf-Marcato Speed****Samples: 2140 RAM: 133 MB Level 2**

Interval performances: Marcato slow and fast  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
marcato	slow	medium	fast

**13 VI Perf-Spiccato Speed****Samples: 1882 RAM: 117 MB Level 2**

Interval performances: Staccato/spiccato, performance spiccato slow and fast

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
spiccato	stac/spic	slow	fast

**14 VI Short notes - All****Samples: 1624 RAM: 101 MB Level 2**

Staccato, détaché short, détaché long with and without vibrato

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	staccato	détaché short	dét. long, vib.	dét. long, no vib.

**15 VI Long notes - All****Samples: 1509 RAM: 94 MB Level 2**

Sustained with vibrato, marcato, espressivo, progressive, fading, and no vibrato

**Matrix switches:** Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
sustained	vibrato	marcato	espressivo	progr. vibrato	fading vibrato	no vibrato

**16 VI Dynamics - Small****Samples: 750 RAM: 46 MB Level 2**

Medium dynamics: Crescendo/diminuendo with vibrato 1.5, 3, 4 sec., fortepiano, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
medium dyn. vib.	1.5 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

**17 VI Dynamics - All****Samples: 1557 RAM: 97 MB Level 2**

Dynamics: Crescendo/diminuendo medium with and without vibrato, strong with vibrato, cresc-dim 2 and 4 sec., fortepiano, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 5 zones

	C1	C#1	D1
med.dyn. vib.	1.5sec.	3sec.	4sec.
strong dyn. vib.	1.5sec.	3sec.	4sec.
med.dyn. no vib.	1.5sec.	3sec.	3sec.
special dyn.	pfp 2sec.	pfp 4sec.	pfp 4sec.
special dyn.	fp	sfz	sffz

**18 VI Tremolo - All****Samples: 661 RAM: 41 MB Level 2**

Tremolo: sustained, sustained with attack automation, dynamics 1.5 and 3 sec.

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
tremolo	sustained	auto attack	dyn. 1.5sec.	dyn. 3sec.

**19 VI Trills - normal****Samples: 300 RAM: 18 MB Level 2**

Trills: normal and dynamics, half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

**20 VI Trills - accelerando****Samples: 282 RAM: 17 MB Level 2**

Trills accelerando: normal and dynamics, half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

**21 VI Trills - All****Samples: 582 RAM: 36 MB Level 2**

Trills: constant speed and accelerando, normal and dynamics, half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
half tone	normal	dynamics	accelerando	acc. dynamics
whole tone	normal	dynamics	accelerando	acc. dynamics

**22 VI Pizzicato + Legno - All****Samples: 564 RAM: 35 MB Level 2**

Pizzicato normal, secco, and snap; col legno

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 3 zones

	C1	C#1
V1	pizzicato normal	col legno
V2	pizz. secco	col legno
V3	pizz. snap	col legno

**23 VI Harmonics artificial - All****Samples: 273 RAM: 17 MB Level 2**

Artificial harmonics: Staccato, sustained, repetition performances, glissando

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
harmonics artificial	staccato	sustained	perf. repetition	glissando

**24 VI Harmonics natural - All****Samples: 344 RAM: 21 MB Level 2**

Natural harmonics: Sustained, repetition performances, glissando

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
harmonics natural	sustained	perf. repetition	glissando

**25 VI Ponticello - All****Samples: 1745 RAM: 109 MB Level 2**

Ponticello: Staccato, détaché, sustained, sforzato, sforzatissimo, tremolo, legato repetitions normal/dynamics

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	sustained	sfz	tremolo	perf.rep legato
V2	détaché	sus. auto attack	sffz	trem. auto attack	perf.rep legato dyn.

**26 VI Ponticello XF - All****Samples: 4640 RAM: 290 MB Level 2**

Ponticello and normal: Staccato, détaché, sustained, sforzato, sforzatissimo, tremolo, legato repetitions normal/dynamics  
 Cell crossfade ponticello/normal

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	sustained	sfz	tremolo	perf.rep legato
V2	détaché	sus. auto attack	sfz	trem. auto attack	perf.rep legato dyn.

**27 VI Tasto - All****Samples: 1183 RAM: 73 MB Level 2**

Sul tasto: Staccato, détaché, sustained, sforzato, tremolo

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	sustained	sfz	tremolo
V2	détaché	sus. auto attack	sfz	trem. auto attack

**28 VI Tasto XF - All****Samples: 3453 RAM: 215 MB Level 2**

Sul tasto and normal: Staccato, détaché, sustained, sforzato, tremolo  
 Cell crossfade tasto/normal

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	sustained	sfz	tremolo
V2	détaché	sus. auto attack	sfz	trem. auto attack

**29 VI Glissando - All****Samples: 1139 RAM: 71 MB Level 2**

Single string performance glissandos  
 Medium and fast octave glissandos  
 Monophonic

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
perf.gliss	G string	D string	A string	E string
octave gliss	medium	medium	medium	medium
octave gliss	fast	fast	fast	fast

**Matrix - LEVEL 2 C - Repetitions****31 VI Perf-Repetitions - Combi****Samples: 2577 RAM: 161 MB Level 2**

Repetition performances: Legato, portato, staccato, spiccato, harsh

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
repetitions	legato	portato	staccato	spiccato	harsh

**32 VI Perf-Repetitions - Speed****Samples: 2127 RAM: 132 MB Level 2**

Repetition performances: Legato, portato, staccato, spiccato  
 Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones

	H1	H2	H3	H4
repetitions	legato	portato	staccato	spiccato

**33 VI Fast-Repetitions****Samples: 546 RAM: 34 MB Level 2**

Fast repetitions: 150, 160, 170, 180, 190, 200 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	150	160	170	180	190	200

**34 VI Ricochet-Repetitions - All****Samples: 250 RAM: 15 MB Level 2**

Ricochet repetitions: 150, 160, 170, 180, 190, 210 BPM, 3 upbeats, accelerando, ritardando

**Matrix switches:** Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1
speed/BPM	150	160	170	180	190	210
3 repetitions	%	%	%	%	%	%
accelerando	%	%	%	%	%	%
ritardando	%	%	%	%	%	%

**Matrix - LEVEL 2 D - Scale+Phrase****41 VI Scale runs-legato - Major****Samples: 380 RAM: 23 MB Level 2**

Octave runs, legato: Major, C to B

AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major runs	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

**42 VI Scale runs-legato - Minor****Samples: 380 RAM: 23 MB Level 2**

Octave runs, legato: Minor sharp, C to B

AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
minor runs	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

**43 VI Scale runs-legato - Special****Samples: 112 RAM: 7 MB Level 2**

Octave runs, legato: Chromatic and whole tone

AB switch up/down

**Matrix switches:** Vertical: Modwheel, 2 zones

	H1
runs	chromatic
V2	whole tone

**44 VI Scale runs-legato - All****Samples: 872 RAM: 54 MB Level 2**

Octave runs, legato: Major and minor, C to B; chromatic and whole tone

AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
chromatic	%	%	%	%	%	%	%	%	%	%	%	%
whole tone	%	%	%	%	%	%	%	%	%	%	%	%



**45 VI Scale runs-spiccato - Major****Samples: 188 RAM: 11 MB Level 2**

Octave runs, spiccato: Major, C to B  
AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major runs	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

**46 VI Scale runs-spiccato - Minor****Samples: 190 RAM: 11 MB Level 2**

Octave runs, spiccato: Minor sharp, C to B  
AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
minor runs	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

**47 VI Scale runs-spiccato - Special****Samples: 56 RAM: 3 MB Level 2**

Octave runs, spiccato: Chromatic and whole tone  
AB switch up/down

**Matrix switches:** Vertical: Modwheel, 2 zones

	H1
runs	chromatic
V2	whole tone

**48 VI Scale runs-spiccato - All****Samples: 434 RAM: 27 MB Level 2**

Octave runs, spiccato: Major and minor, C to B; chromatic and whole tone  
AB switch up/down  
AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
chromatic	%	%	%	%	%	%	%	%	%	%	%	%
whole tone	%	%	%	%	%	%	%	%	%	%	%	%

**49 VI Grace notes - All****Samples: 471 RAM: 29 MB Level 2**

Grace notes: Slow and fast, half and whole tone  
Mapped to target note  
AB switch: up/down

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
minor 2nd	slow	fast
major 2nd	slow	fast

**50 VI Grace notes - zigane****Samples: 463 RAM: 28 MB Level 2**

Grace notes, zigane (gipsy): Minor 2nd to major 3rd  
Mapped to target note  
AB switch: up/down

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
interval	min.2nd	maj.2nd	min.3rd	maj.3rd

**Matrix - LEVEL 2 E - Keyswitch Vel****61 VI Legato slow - cre5****Samples: 125 RAM: 7 MB Level 2**

Legato notes 1 sec.: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**62 VI Legato fast - cre5****Samples: 130 RAM: 8 MB Level 2**

Fast legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**63 VI Portato slow - cre5****Samples: 125 RAM: 7 MB Level 2**

Slow portato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**64 VI Portato medium - cre5****Samples: 125 RAM: 7 MB Level 2**

Medium portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**65 VI Portato fast - cre9****Samples: 234 RAM: 14 MB Level 2**

Fast portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**66 VI Staccato - cre9****Samples: 234 RAM: 14 MB Level 2**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**67 VI Spiccato - cre9****Samples: 225 RAM: 14 MB Level 2**

Spiccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**68 VI Harsh - cre9****Samples: 225 RAM: 14 MB Level 2**

Harsh notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**69 VI Combi - cre5****Samples: 505 RAM: 31 MB Level 2**

Slow/fast legato, slow/medium portato: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1
leg slow	1st	2nd	3rd	4th	5th
leg fast	1st	%	%	%	%
port slow	1st	2nd	3rd	4th	5th
port med	1st	%	%	%	%

**70 VI Combi - cre9****Samples: 918 RAM: 57 MB Level 2**

Fast portato, staccato, spiccato, harsh: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%
harsh	1st	%	%	%	%	%	%	%	%

**71 VI Legato slow - dim5****Samples: 125 RAM: 7 MB Level 2**

Legato notes 1 sec.: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**72 VI Legato fast - dim5****Samples: 130 RAM: 8 MB Level 2**

Fast legato notes: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**73 VI Portato slow - dim5****Samples: 125 RAM: 7 MB Level 2**

Slow portato notes: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**74 VI Portato medium - dim5****Samples: 125 RAM: 7 MB****Level 2**

Medium portato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**75 VI Portato fast - dim9****Samples: 234 RAM: 14 MB****Level 2**

Fast portato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**76 VI Staccato - dim9****Samples: 234 RAM: 14 MB****Level 2**

Staccato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**77 VI Spiccato - dim9****Samples: 225 RAM: 14 MB****Level 2**

Spiccato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**78 VI Harsh - dim9****Samples: 225 RAM: 14 MB****Level 2**

Harsh notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**79 VI Combi - dim5****Samples: 505 RAM: 31 MB****Level 2**

Slow/fast legato, slow/medium portato: Diminuendo, keyswitch velocity  
 Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1
leg slow	1st	2nd	3rd	4th	5th
leg fast	1st	%	%	%	%
port slow	1st	2nd	3rd	4th	5th
port med	1st	%	%	%	%

**80 VI Combi - dim9****Samples: 918 RAM: 57 MB Level 2**

Fast portato, staccato, spiccato, harsh: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%
harsh	1st	%	%	%	%	%	%	%	%

## Presets

**VI VSL Preset Level 1****Samples: 8084 RAM: 505 MB Level 1**

L1 VI Perf-Legato Speed + porta  
 L1 VI Articulation Combi  
 L1 VI Perf-Repetitions Combi

**VI VSL Preset Level 2****Samples: 15584 RAM: 974 MB Level 2**

01 VI Perf-Universal  
 02 VI Perf-Legato - All  
 L1 VI Articulation Combi  
 31 VI Perf-Repetitions - Combi  
 70 VI Combi - cre9  
 06 Perf-Harsh - Combi

## 02 Viola solo

### Description

The viola is the alto instrument of the violin family. It is constructed using the same components as the violin, the only difference being the larger size. Its stately and dark timbre contrasts sharply with that of the violin.

The modern symphony orchestra usually uses 10 (in large orchestras 12) violas.

### Range and notation

The viola has a range from C3–A6 (harmonic E7).

The viola is a non-transposing instrument notated in alto clef, and in treble clef from the second octave above middle C. The viola's range lies mainly between C3 and G5, that is, within the alto clef's domain.

### Sound characteristics

Dark, stately, reedy, warm, distinctive, full, lively, singing, eloquent, introspective, sensuous, round, muffled, solemn, austere, muted, rough, wafting, veiled, sonorous, powerful, robust.

The sound of the violas as a group achieves an austere charm which is used for melodic tasks at dramatic turning points, especially in the opera orchestra.

### Combination with other instruments

The doubling of voices in the middle register is one of the viola's customary roles as it is acting as an intermediary between the violins and the cellos.

Woodwinds provide the strings with more volume and power, while the strings make the woodwinds more mellow, especially when playing in *unison*. In high registers and played *forte* or *fortissimo* the viola is perfectly capable of matching the woodwinds for intensity and acerbity of sound, an effect that is intensified when the groups play in combination.

The combination of violas and the majority of brass instruments produces a relatively homogeneous sound.

## Patches

### 01 SHORT + LONG NOTES

Range: C3–G#6



**Level 1:** Staccato, short and long détaché, sustained with vibrato, marcato

**Level 2:** Sustained with progressive, fading, and without vibrato, espressivo

#### 01 VA\_staccato

Samples: 350 RAM: 21 MB [Level 1](#)

Staccato

4 velocity layers: 0–55 pp; 56–88 mf; 89–108 f; 109–127 ff

4 Alternations

#### 02 VA\_detache\_short

Samples: 352 RAM: 22 MB [Level 1](#)

Short détaché

4 velocity layers: 0–55 p; 56–88 mp; 89–108 f; 109–127 ff

4 Alternations

#### 03 VA\_detache\_long

Samples: 440 RAM: 27 MB [Level 1](#)

Long détaché

5 velocity layers: 0–28 pp; 29–55 mp; 56–88 mf; 89–108 f; 109–127 ff

4 Alternations

#### 10 VA\_sus\_Vib

Samples: 601 RAM: 37 MB [Level 1](#)

Sustained, vibrato

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f

Release samples

#### 11 VA\_sus\_Vib\_fA

Samples: 300 RAM: 18 MB [Level 2](#)

Sustained, vibrato

Optimized attack for legato

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f

Release samples

#### 12 VA\_sus\_Vib\_fA\_auto

Samples: 730 RAM: 45 MB [Level 2](#)

Sustained, vibrato

Attack automation

Monophonic

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f

Release samples

#### 13 VA\_sus\_Vib-marc

Samples: 218 RAM: 13 MB [Level 1](#)

Sustained, vibrato, marcato

3 velocity layers: 0–88 mf; 89–108 f; 109–127 ff

Release samples


#### 14 VA\_sus\_Vib-espr

Samples: 86 RAM: 5 MB [Level 2](#)

Sustained (4 sec.), vibrato, forte, espressivo

1 velocity layer

Release samples

<b>15 VA_sus_Vib-progr</b> Sustained, progressive vibrato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 390</b>	<b>RAM: 24 MB</b>	<b>Level 2</b>
<b>16 VA_sus_Vib-down</b> Sustained, diminishing vibrato 2 velocity layers: 0–88 f; 89–127 ff	<b>Samples: 86</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>17 VA_sus_noVib</b> Sustained, no vibrato 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 ff Release samples	<b>Samples: 260</b>	<b>RAM: 16 MB</b>	<b>Level 2</b>
<div> <div>02 DYNAMICS</div> <div>Range: C3–G#6</div> <div>  </div> </div>			
<b>Level 1:</b> Fortepiano, sforzato <b>Level 2:</b> Medium crescendo and diminuendo with and without vibrato (1.5 and 3 sec.), strong crescendo and diminuendo with vibrato (1.5, 3, and 4 sec.), crescendo-diminuendo (2 and 4 sec.), sforzatissimo			
<b>01 VA_dyn-me_Vib_1'5s</b> Medium dynamics, 1.5 sec., vibrato 2 velocity layers: 0–88 p–mf/mf–p; 89–127 mf–f/f–mf AB switch: crescendo/diminuendo	<b>Samples: 172</b>	<b>RAM: 10 MB</b>	<b>Level 2</b>
<b>02 VA_dyn-me_Vib_3s</b> Medium dynamics, 3 sec., vibrato 2 velocity layers: 0–88 pp–mf/mf–pp; 89–127 mf–ff/ff–mf AB switch: crescendo/diminuendo	<b>Samples: 178</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>03 VA_dyn-str_Vib_1'5s</b> Strong dynamics, 1.5 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 89</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>04 VA_dyn-str_Vib_3s</b> Strong dynamics, 3 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 86</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>05 VA_dyn-str_Vib_4s</b> Strong dynamics, 4 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 86</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>06 VA_dyn-me_noVib_1'5s</b> Medium dynamics, 1.5 sec., no vibrato 2 velocity layers: 0–88 pp–mf/mf–pp; 89–127 mf–ff/ff–mf AB switch: crescendo/diminuendo	<b>Samples: 176</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>



<b>07 VA_dyn-me_noVib_3s</b> Medium dynamics, 3 sec., no vibrato 2 velocity layers: 0–88 pp-mf/mf-pp; 89–127 mf-ff/ff-mf AB switch: crescendo/diminuendo	<b>Samples: 176</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>08 VA_pfp_Vib_2s</b> Crescendo-diminuendo, 2 sec., vibrato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 44</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>09 VA_pfp_Vib_4s</b> Crescendo-diminuendo, 4 sec., vibrato 2 velocity layers: 0–88 p-mf; 89–127 mf-f	<b>Samples: 86</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>10 VA_fp_Vib</b> Fortepiano, vibrato 1 velocity layer	<b>Samples: 43</b>	<b>RAM: 2 MB</b>	<b>Level 1</b>
<b>11 VA_sfz_Vib</b> Sforzato, vibrato 1 velocity layer	<b>Samples: 43</b>	<b>RAM: 2 MB</b>	<b>Level 1</b>
<b>12 VA_sffz_Vib</b> Sforzatissimo, vibrato 1 velocity layer	<b>Samples: 43</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>

**03 TREMOLO + TRILLS****Range: C3–G#6**

- Level 1:** Tremolo sustained, trills half and whole tone
- Level 2:** Tremolo crescendo and diminuendo (1.5 and 3 sec.), trills constant speed dynamics, accelerando normal and dynamics.

<b>01 VA_trem_sus</b> Tremolo sustained 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 ff Release samples	<b>Samples: 220</b>	<b>RAM: 13 MB</b>	<b>Level 1</b>
<b>02 VA_trem_sus_fA</b> Tremolo sustained Optimized attack for legato 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 ff Release samples	<b>Samples: 220</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>03 VA_trem_sus_fA_auto</b> Tremolo sustained Attack automation Monophonic 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 ff Release samples	<b>Samples: 330</b>	<b>RAM: 20 MB</b>	<b>Level 1</b>

<b>04 VA_trem_dyn_1'5s</b> Tremolo dynamics, 1.5 sec. 2 velocity layers: 0–88 p; 89–127 f AB switch: crescendo/diminuendo		<b>Samples: 88</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>05 VA_trem_dyn_3s</b> Tremolo dynamics, 3 sec. 2 velocity layers: 0–88 p; 89–127 f AB switch: crescendo/diminuendo		<b>Samples: 88</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>10 VA_trill_1</b> Trills: Half tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: C3–A5</b>	<b>Samples: 64</b>	<b>RAM: 4 MB</b>	<b>Level 1</b>
<b>11 VA_trill_2</b> Trills: Whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: C3–A5</b>	<b>Samples: 64</b>	<b>RAM: 4 MB</b>	<b>Level 1</b>
<b>12 VA_trill_1_dyn</b> Trills: Half tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C3–A5</b>	<b>Samples: 32</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>13 VA_trill_2_dyn</b> Trills: Whole tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C3–A5</b>	<b>Samples: 32</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>14 VA_trill-acc_1</b> Trills: Accelerando, half tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: C3–D#6</b>	<b>Samples: 76</b>	<b>RAM: 4 MB</b>	<b>Level 2</b>
<b>15 VA_trill-acc_2</b> Trills: Accelerando, whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: C3–D#6</b>	<b>Samples: 76</b>	<b>RAM: 4 MB</b>	<b>Level 2</b>
<b>16 VA_trill-acc_1_dyn</b> Trills: Accelerando, half tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C3–D#6</b>	<b>Samples: 38</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>17 VA_trill-acc_2_dyn</b> Trills: Accelerando, whole tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C3–D#6</b>	<b>Samples: 38</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>

**04 PIZZ + LEGNO****Range: C3–A6****Level 1:** Pizzicato normal and snap (Bartók)**Level 2:** Col legno**01 VA\_pizz****Samples: 176 RAM: 11 MB Level 1**

Pizzicato

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

**02 VA\_pizz\_snap****Samples: 88 RAM: 5 MB Level 1**

Snap or Bartók pizzicato

1 velocity layer

4 Alternations

**03 VA\_col-legno****Samples: 176 RAM: 11 MB Level 2**

Col legno

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

**05 HARMONICS****Range: C4–A6****Level 1:** Artificial harmonics staccato and sustained**Level 2:** Artificial harmonics repetition performances; Natural harmonics sustained, repetition performances, glissando

Harmonics patches are mapped an octave lower than they sound.

**01 VA\_harm-art\_stac****Samples: 34 RAM: 2 MB Level 1**

Artificial harmonics: Staccato, mezzoforte

1 velocity layer

2 Alternations

**02 VA\_harm-art\_sus****Samples: 68 RAM: 4 MB Level 1**

Artificial harmonics: Sustained

2 velocity layers: 0–88 p; 89–127 f

Release samples

**03 VA\_harm-art\_perf-rep****Samples: 85 RAM: 5 MB Level 2**

Artificial harmonics: Repetition performances

1 velocity layer

**11 VA\_harm-nat\_sus****Range: C3-A#6 Samples: 128 RAM: 8 MB****Level 2**

Natural harmonics: Sustained notes on every string, from fundamental to 7th harmonic

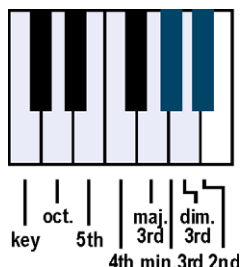
2 velocity layers: 0–88 p; 89–127 f

Release samples

**Mapping:**

C – key note; D – 1st (octave); E – 2nd (5th); F – 3rd (4th); G – 4th (maj. 3rd); G# – 5th (min. 3rd); A – 6th (dim. 3rd); A# – 7th (2nd)

C3-A#3: C string; C4-A#4: G string; C5-A#5: D string; C6-A#6: A string

**12 VA\_harm-nat\_perf-rep****Range: C3-A#6 Samples: 160 RAM: 10 MB****Level 2**

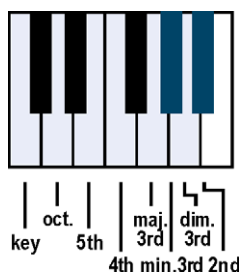
Natural harmonics: Repetition performances on every string, from fundamental to 7th harmonic

1 velocity layer

**Mapping:**

C – key note; D – 1st (octave); E – 2nd (5th); F – 3rd (4th); G – 4th (maj. 3rd); G# – 5th (min. 3rd); A – 6th (dim. 3rd); A# – 7th (2nd)

C3-A#3: C string; C4-A#4: G string; C5-A#5: D string; C6-A#6: A string

**13 VA\_harm-nat\_gliss****Range: C3-A#6 Samples: 56 RAM: 3 MB****Level 2**

Natural harmonics: Glissandos on every string, from fundamental to 1st, 2nd, etc. harmonic; reverse for downward glissandos

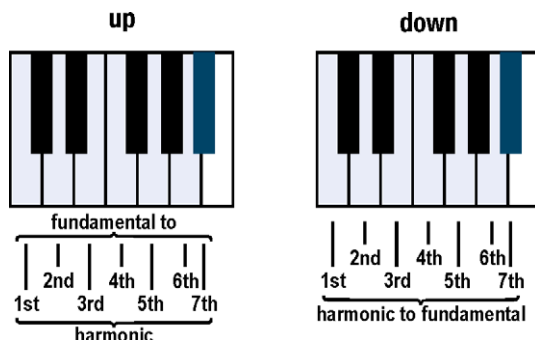
1 velocity layer

AB switch: up/down

**Mapping:**

C – key note to 1st (octave); D – to 2nd (+5th); E – to 3rd (+4th); F – to 4th (+maj 3rd); G – to 5th (+min. 3rd); A – to 6th (+dim. 3rd); A# – to 7th (+2nd)

C3-A#3: C string; C4-A#4: G string; C5-A#5: D string; C6-A#6: A string





**06 PONTICELLO****Range: C3–A6**

Ponticello – bowed near the bridge, giving a louder, brighter sound.

**Level 1:** Staccato, sustained, tremolo**Level 2:** Détaché, sforzato, sforzatissimo, repetition performances normal and dynamics

<b>01 VA_pon_staccato</b> Ponticello staccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations	<b>Samples: 204</b>	<b>RAM: 12 MB</b>	<b>Level 1</b>
<b>02 VA_pon_detache</b> Ponticello détaché 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations	<b>Samples: 216</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>03 VA_pon_sus</b> Ponticello sustained 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 198</b>	<b>RAM: 12 MB</b>	<b>Level 1</b>
<b>04 VA_pon_sus_fA</b> Ponticello sustained Optimized attack for legato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 198</b>	<b>RAM: 12 MB</b>	<b>Level 2</b>
<b>05 VA_pon_sus_fA_auto</b> Ponticello sustained Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 297</b>	<b>RAM: 18 MB</b>	<b>Level 2</b>
<b>06 VA_pon_sfz</b> Ponticello sforzato 1 velocity layer	<b>Samples: 36</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>07 VA_pon_sffz</b> Ponticello sforzatissimo 1 velocity layer	<b>Samples: 36</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>08 VA_pon_trem</b> Ponticello tremolo 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 214</b>	<b>RAM: 13 MB</b>	<b>Level 1</b>
<b>09 VA_pon_trem_fA</b> Ponticello tremolo Optimized attack for legato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 214</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>

<b>10 VA_pon_trem_fA_auto</b> Ponticello tremolo Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 321</b>	<b>RAM: 20 MB</b>	<b>Level 1</b>
<b>11 VA_pon_perf-rep_leg</b> Repetition performances: Ponticello legato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 220</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>12 VA_pon_perf-rep_dyn_leg</b> Repetition performances: Ponticello legato, dynamics, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 220</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<div> <div><b>07 TASTO</b></div> <div><b>Range: C3–A6</b></div> <div>  </div> </div> <div>Sul tasto or flautando – bowed near the fingerboard, resulting in a softer, muffled sound</div> <div><b>Level 2:</b> Staccato, détaché, sustained, sforzato, tremolo</div>			
<b>01 VA_tas_staccato</b> Sul tasto staccato 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p 2 Alternations	<b>Samples: 264</b>	<b>RAM: 16 MB</b>	<b>Level 2</b>
<b>02 VA_tas_detache</b> Sul tasto détaché 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p 2 Alternations	<b>Samples: 210</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>03 VA_tas_sus</b> Sul tasto sustained 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 240</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>04 VA_tas_sus_fA</b> Sul tasto sustained Optimized attack for legato 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 240</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>05 VA_tas_sus_fA_auto</b> Sul tasto sustained Attack automation Monophonic 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 360</b>	<b>RAM: 22 MB</b>	<b>Level 2</b>
<b>06 VA_tas_sfz</b> Sul tasto sforzato 1 velocity layer	<b>Samples: 34</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>

<b>07 VA_tas_trem</b> Sul tasto tremolo 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 214</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>08 VA_tas_trem_fA</b> Sul tasto tremolo Optimized attack for legato 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 214</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>09 VA_tas_trem_fA_auto</b> Sul tasto tremolo Attack automation Monophonic 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 321</b>	<b>RAM: 20 MB</b>	<b>Level 2</b>
<div> <div><b>10 PERF INTERVAL</b></div> <div>Range: C3–D6</div> <div>  </div> </div> <div> <b>Level 1:</b> Legato, portamento  <b>Level 2:</b> Legato on the same string, with progressive vibrato, zigane (gipsy), marcato, and spiccato </div>			
<b>01 VA_perf-legato</b> Legato Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Samples: 958</b>	<b>RAM: 59 MB</b>	<b>Level 1</b>
<b>02 VA_perf-legato_sul</b> Legato on the same string Monophonic 2 velocity layers: 0–88 mp; 89–127 f Release samples	<b>Samples: 978</b>	<b>RAM: 61 MB</b>	<b>Level 2</b>
<b>03 VA_perf-legato_Vib-prog</b> Legato, progressive vibrato Monophonic 1 velocity layer Release samples	<b>Samples: 491</b>	<b>RAM: 30 MB</b>	<b>Level 2</b>
<b>04 VA_perf-legato_zigane</b> Zigane (gipsy) Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Samples: 628</b>	<b>RAM: 39 MB</b>	<b>Level 2</b>
<b>05 VA_perf-portamento</b> Portamento Monophonic 2 velocity layers: 0–88 mp; 89–127 f Release samples	<b>Samples: 978</b>	<b>RAM: 61 MB</b>	<b>Level 1</b>

**06 VA\_perf-marcato****Samples: 978 RAM: 61 MB Level 2**

Marcato

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

Release samples

**07 VA\_perf-spiccato****Samples: 1104 RAM: 69 MB Level 2**

Spiccato

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

**11 PERF INTERVAL FAST****Range: C3–D6****Level 1:** Legato**Level 2:** Marcato, spiccato, and harsh**01 VA\_perf-legato\_fa****Samples: 1186 RAM: 74 MB Level 1**

Legato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**02 VA\_perf-marcato\_fa****Samples: 1378 RAM: 86 MB Level 2**

Marcato, fast

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

Release samples

**03 VA\_perf-spiccato\_fa****Samples: 1216 RAM: 76 MB Level 2**

Spiccato, fast

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

**04 VA\_perf-harsh\_fa****Samples: 308 RAM: 19 MB Level 2**

Harsh, fast

Monophonic

1 velocity layer

**12 PERF TRILL****Range: C3–D6****Level 2:** Trills, legato, minor 2nd to 4th**01 VA\_perf-trill\_leg****Samples: 2938 RAM: 183 MB Level 2**

Trills, legato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples



**13 PERF REPETITION****Range: C3–G#6****Level 1:** Legato slow, staccato, spiccato**Level 2:** Legato fast, portato, harsh; dynamics for all articulations

<b>01 VA_perf-rep_leg-sl</b> Legato, slow 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f	<b>Samples: 330</b>	<b>RAM: 20 MB</b>	<b>Level 1</b>
<b>02 VA_perf-rep_leg-fa</b> Legato, fast 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f	<b>Samples: 330</b>	<b>RAM: 20 MB</b>	<b>Level 2</b>
<b>03 VA_perf-rep_por</b> Portato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f	<b>Samples: 594</b>	<b>RAM: 37 MB</b>	<b>Level 2</b>
<b>04 VA_perf-rep_sta</b> Staccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f	<b>Samples: 594</b>	<b>RAM: 37 MB</b>	<b>Level 1</b>
<b>05 VA_perf-rep_spi</b> Spiccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f	<b>Samples: 594</b>	<b>RAM: 37 MB</b>	<b>Level 1</b>
<b>06 VA_perf-rep_harsh</b> Harsh 1 velocity layer	<b>Samples: 198</b>	<b>RAM: 12 MB</b>	<b>Level 2</b>
<b>21 VA_perf-rep_dyn5_leg-sl</b> Legato dynamics, slow, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 220</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>22 VA_perf-rep_dyn5_leg-fa</b> Legato dynamics, fast, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 220</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>23 VA_perf-rep_dyn9_por</b> Portato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 396</b>	<b>RAM: 24 MB</b>	<b>Level 2</b>
<b>24 VA_perf-rep_dyn9_sta</b> Staccato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 396</b>	<b>RAM: 24 MB</b>	<b>Level 2</b>
<b>25 VA_perf-rep_dyn9_spi</b> Spiccato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 396</b>	<b>RAM: 24 MB</b>	<b>Level 2</b>

**26 VA\_perf-rep\_dyn9\_harsh****Samples: 396 RAM: 24 MB Level 2**

Harsh dynamics, 9 repetitions

1 velocity layer

AB switch: crescendo/diminuendo

**14 FAST REPETITION****Range: C3–G#6****Level 2:**

9 repetitions, normal and dynamics, speeds from 150 to 190 BPM.

Ricochet – the bow is cast onto the string and rebounding: normal with 150 to 190 and 210 BPM, 3 quick repetitions, accelerando, ritardando

**01 VA\_fast-rep\_150 (160/170/180/190)****Samples: 132 RAM: 8 MB Level 2**

Staccato, 9 repetitions, 150, 160, 170, 180, 190 BPM

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

**11 VA\_fast-rep\_150\_dyn (160/170/180/190)****Samples: 44 RAM: 2 MB Level 2**

Staccato dynamics, 9 repetitions, 150, 160, 170, 180, 190 BPM

1 velocity layer

AB switch: crescendo/diminuendo

**21 VA\_ricochet\_150 (160/170/180/190/210)****Samples: 44 RAM: 2 MB Level 2**

Ricochet, 5 repetitions, 150, 160, 170, 180, 190, 210 BPM

1 velocity layer

Release samples

**31 VA\_ricochet\_a3****Samples: 22 RAM: 1 MB Level 2**

Ricochet, 3 repetitions

1 velocity layer

**32 VA\_ricochet\_accel****Samples: 22 RAM: 1 MB Level 2**

Ricochet accelerando

1 velocity layer

**33 VA\_ricochet\_ritard****Samples: 22 RAM: 1 MB Level 2**

Ricochet ritardando

1 velocity layer

**15 GRACE NOTES****Range: C3–G#6****Level 2:**

Grace notes, half and whole tone; zigané grace notes, minor 2nd to major 3rd

**01 VA\_grace-1****Samples: 170 RAM: 10 MB Level 2**

Grace notes, half tone

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: up/down

**02 VA\_grace-2****Samples: 170 RAM: 10 MB Level 2**

Grace notes, whole tone

2 velocity layers: 0–88 p; 89–127 f

Release samples  
AB switch: up/down

<b>11 VA_grace-zigane-1</b> Grace notes, zigane, half tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: C3–D6</b>	<b>Samples: 162</b>	<b>RAM: 10 MB</b>	<b>Level 2</b>
<b>12 VA_grace-zigane-2</b> Grace notes, zigane, whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: C3–D6</b>	<b>Samples: 162</b>	<b>RAM: 10 MB</b>	<b>Level 2</b>
<b>13 VA_grace-zigane-3</b> Grace notes, zigane, minor 3rd 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: C3–D6</b>	<b>Samples: 158</b>	<b>RAM: 9 MB</b>	<b>Level 2</b>
<b>14 VA_grace-zigane-4</b> Grace notes, zigane, major 3rd 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: C3–D6</b>	<b>Samples: 158</b>	<b>RAM: 9 MB</b>	<b>Level 2</b>

## 16 GLISSANDI



**Level 1:** Octave glissandos, up and down

**Level 2:** Glissandos on every string

<b>01 VA_perf-gliss_C</b> Phrase performances: Glissando, C string Monophonic 1 velocity layer Release samples	<b>Range: C3–G#4</b>	<b>Samples: 241</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>02 VA_perf-gliss_G</b> Phrase performances: Glissando, G string Monophonic 1 velocity layer Release samples	<b>Range: G3–D#5</b>	<b>Samples: 243</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>03 VA_perf-gliss_D</b> Phrase performances: Glissando, D string Monophonic 1 velocity layer Release samples	<b>Range: D4–A5</b>	<b>Samples: 239</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>04 VA_perf-gliss_A</b> Phrase performances: Glissando, A string	<b>Range: A4–G#6</b>	<b>Samples: 293</b>	<b>RAM: 18 MB</b>	<b>Level 2</b>

Monophonic  
1 velocity layer  
Release samples

<b>05 VA_octav-gliss</b>	<b>Range: C3–G6</b>	<b>Samples: 34</b>	<b>RAM: 2 MB</b>	<b>Level 1</b>
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Phrases: Octave glissando

Please note that upward glissandos can be played to an octave below the upper play range, downward glissandos to an octave above the lower play range.

1 velocity layer,  
AB switch: up/down

## 98 RESOURCES

**Level 2:** Isolated dynamics repetitions, single layer long notes, interval performance speed variations.

<b>01 Perf Rep dyn</b>	<b>Range: C3–G#6</b>
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<b>01_VA_rep_cre5_leg-sl-1 (2/3/4/5)</b>	<b>Samples: 22</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Legato slow, crescendo, 1st to 5th note  
1 velocity layer

<b>01_VA_rep_dim5_leg-sl-1 (2/3/4/5)</b>	<b>Samples: 22</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Legato slow, diminuendo, 1st to 5th note  
1 velocity layer

<b>02_VA_rep_cre5_leg-fa-1 (2/3/4/5)</b>	<b>Samples: 22</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Legato fast, crescendo, 1st to 5th note  
1 velocity layer

<b>02_VA_rep_dim5_leg-fa-1 (2/3/4/5)</b>	<b>Samples: 22</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Legato fast, diminuendo, 1st to 5th note  
1 velocity layer

<b>03_VA_rep_cre9_por-1 (2/3/4/5/6/7/8/9)</b>	<b>Samples: 22</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Portato, crescendo, 1st to 9th note  
1 velocity layer

<b>03_VA_rep_dim9_por-1 (2/3/4/5/6/7/8/9)</b>	<b>Samples: 22</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Portato, diminuendo, 1st to 9th note  
1 velocity layer

<b>04_VA_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)</b>	<b>Samples: 22</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Staccato, crescendo, 1st to 9th note  
1 velocity layer

<b>04_VA_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)</b>	<b>Samples: 22</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Staccato, diminuendo, 1st to 9th note  
1 velocity layer

<b>05_VA_rep_cre9_spi-1 (2/3/4/5/6/7/8/9)</b>	<b>Samples: 22</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Spiccato, crescendo, 1st to 9th note  
1 velocity layer

**05\_VA\_rep\_dim9\_spi-1 (2/3/4/5/6/7/8/9)****Samples: 22****RAM: 1 MB****Level 2**

Extracted repetitions: Spiccato, diminuendo, 1st to 9th note  
1 velocity layer

**06\_VA\_rep\_cre9\_harsh-1 (2/3/4/5/6/7/8/9)****Samples: 22****RAM: 1 MB****Level 2**

Extracted repetitions: Harsh, crescendo, 1st to 9th note  
1 velocity layer

**06\_VA\_rep\_dim9\_harsh-1 (2/3/4/5/6/7/8/9)****Samples: 22****RAM: 1 MB****Level 2**

Extracted repetitions: Harsh, diminuendo, 1st to 9th note  
1 velocity layer

**02 Long Notes - Single Layer****Range: C3–A6****01\_VA\_sus\_Vib-pp****Samples: 128****RAM: 8 MB****Level 2**

Sustained, vibrato, pp  
1 velocity layer  
Release samples

**02\_VA\_sus\_Vib-mp****Samples: 129****RAM: 8 MB****Level 2**

Sustained, vibrato, mp  
1 velocity layer  
Release samples

**03\_VA\_sus\_Vib-f****Samples: 172****RAM: 10 MB****Level 2**

Sustained, vibrato, f  
1 velocity layer  
Release samples

**04\_VA\_sus\_Vib-ff****Samples: 215****RAM: 13 MB****Level 2**

Sustained, vibrato, fortissimo  
1 velocity layer  
Release samples

**03 Perf Speed variation****Range: C3–D6****01\_VA\_perf-legato\_me****Samples: 1063****RAM: 66 MB****Level 2**

Interval performances: Legato, medium speed  
Monophonic  
2 velocity layers: 0–88 p; 89–127 f  
Release samples

**11\_VA\_stac-spic****Range: C3–A6****Samples: 174****RAM: 10 MB****Level 2**

Single notes: Staccato/spiccato  
2 velocity layers: 0–88 pp; 89–127 f

**99 RELEASE TRIGGER**

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

## Matrices

### Matrix - LEVEL 1

#### L1 VA Articulation Combi

**Samples: 3190 RAM: 199 MB Level 1**

Single note articulations: Normal, ponticello, artificial harmonics, glissandos, pizzicato

**Matrix switches:** Horizontal: Keyswitches, C1–A1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	stac	sus	fp	trem	trill half	pon.stac	pon.trem	harm.stac	med.gliss	pizz.
V2	dét. short	marc	sfz	trem auto	trill whole	pon.sus	pon.trem auto	harm.sus	fast gliss	snap pizz.

#### L1 VA Perf-Legato Speed + porta

**Samples: 2277 RAM: 142 MB Level 1**

Interval performances: Legato slow and fast, portamento

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
V1	legato slow	legato fast
V2	portamento	legato fast

#### L1 VA Perf-Repetitions Combi

**Samples: 1518 RAM: 94 MB Level 1**

Repetition performances: Slow legato, staccato, spiccato

**Matrix switches:** Vertical: Modwheel, 3 zones

	repetitions
V1	legato
V2	staccato
V3	spiccato

### Matrix - LEVEL 2 A - Advanced

#### 01 VA Perf-Universal

**Samples: 4700 RAM: 293 MB Level 2**

Interval performances: Legato, marcato, spiccato; slow and fast

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones Vertical: Modwheel, 3 zones

	H1	H2	H3	H4
legato	slow	slow	fast	fast
marcato	slow	slow	fast	fast
spiccato	stac/spic	stac/spic	slow	fast

#### 02 VA Perf-Legato - All

**Samples: 3474 RAM: 217 MB Level 2**

Interval performances: Legato straight, on one string, zigane, progressive vibrato, portamento

Monophonic

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
legato	normal	one string	zigane	prog.vibrato
portamento	%	%	%	%

**03 VA Perf-Trill Speed****Samples: 3374 RAM: 210 MB Level 2**

Multi interval performances: Legato and trills  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

**04 VA Perf-Trill Speed - Combi****Samples: 4623 RAM: 288 MB Level 2**

Multi interval performances: Legato, zigane, portamento, trills  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

	H1	H2
V1	legato	trills
V2	zigane	trills
V3	portamento	trills

**05 VA Short+Long notes - All****Samples: 2225 RAM: 139 MB Level 2**

Staccato, détaché short and long, sustained  
 Vibrato variations

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 5 zones

	C1	C#1	D1	D#1
V1	staccato	détaché short	détaché long	sustained vibrato
V2	%	%	%	no vibrato
V3	%	%	%	prog. vibrato
V4	%	%	%	marcato
V5	%	%	%	vib. down

**06 VA Perf-Harsh - Combi****Samples: 1242 RAM: 77 MB Level 2**

Sustained, vibrato variations, ponticello; all with harsh attack  
 Cell crossfade for vibrato/no vibrato sustain

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	sus-vib./no vib.	sus-progr.vib.	ponticello	harsh

**Matrix - LEVEL 2 B - Standard****11 VA Perf-Legato Speed****Samples: 1618 RAM: 101 MB Level 2**

Interval performances: Legato slow and fast  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	medium	fast

**12 VA Perf-Marcato Speed****Samples: 1670 RAM: 104 MB Level 2**

Interval performances: Marcato slow and fast  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
marcato	slow	fast

**13 VA Perf-Spiccato Speed****Samples: 1574 RAM: 98 MB****Level 2**

Interval performances: Staccato/spiccato, performance spiccato slow and fast

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
spiccato	stac/spic	slow	fast

**14 VA Short notes - All****Samples: 1142 RAM: 71 MB****Level 2**

Staccato, détaché short, détaché long

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
short notes	staccato	détaché short	détaché long

**15 VA Long notes - All****Samples: 1126 RAM: 70 MB****Level 2**

Sustained with vibrato, marcato, espressivo, progressive, fading, and no vibrato

**Matrix switches:** Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
sustained	vibrato	marcato	espressivo	progr. vibrato	fading vibrato	no vibrato

**16 VA Dynamics - Small****Samples: 585 RAM: 36 MB****Level 2**

Medium dynamics: Crescendo/diminuendo with vibrato 1.5, 3, 4 sec., fortepiano, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
medium dyn. vib.	1.5 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

**17 VA Dynamics - All****Samples: 1222 RAM: 76 MB****Level 2**

Dynamics: Crescendo/diminuendo medium with and without vibrato, strong with vibrato, cresc-dim 2 and 4 sec., fortepiano, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 5 zones

	C1	C#1	D1
medium dyn. vib.	1.5sec.	3sec.	3sec.
strong dyn. vib.	1.5sec.	3sec.	4sec.
med.dyn. no vib.	1.5sec.	3sec.	3sec.
special dyn.	pfp 2sec.	pfp 4sec.	pfp 4sec.
special dyn.	fp	sfz	sffz

**18 VA Tremolo - All****Samples: 506 RAM: 31 MB****Level 2**

Tremolo: sustained, sustained with attack automation, dynamics 1.5 and 3 sec.

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
tremolo	sustained	auto attack	dyn. 1.5sec.	dyn. 3sec.



**19 VA Trills - normal****Samples: 192 RAM: 12 MB Level 2**

Trills: normal and dynamics, half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

**20 VA Trills - accelerando****Samples: 228 RAM: 14 MB Level 2**

Trills accelerando: normal and dynamics, half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

**21 VA Trills - All****Samples: 420 RAM: 26 MB Level 2**

Trills: constant speed and accelerando, normal and dynamics, half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
half tone	normal	dynamics	accelerando	acc. dynamics
whole tone	normal	dynamics	accelerando	acc. dynamics

**22 VA Pizzicato + Legno - All****Samples: 440 RAM: 27 MB Level 2**

Pizzicato normal and snap

Col legno

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
V1	pizzicato normal	col legno
V2	pizz. snap	col legno

**23 VA Harmonics artificial - All****Samples: 127 RAM: 7 MB Level 2**

Artificial harmonics: Staccato, sustained, repetition performances

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
harmonics artificial	staccato	sustained	perf. repetition

**24 VA Harmonics natural - All****Samples: 344 RAM: 21 MB Level 2**

Natural harmonics: Sustained, repetition performances, glissando

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
harmonics natural	sustained	perf. repetition	glissando

**25 VA Ponticello - All****Samples: 1550 RAM: 96 MB Level 2**

Ponticello: Staccato, détaché, sustained, sforzato, sforzatissimo, tremolo

Legato repetitions normal/dynamics

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	sustained	sfz	tremolo	perf.rep legato
V2	détaché	sus. auto attack	sffz	trem. auto attack	perf.rep legato dyn.

**26 VA Ponticello XF - All****Samples: 4036 RAM: 252 MB Level 2**

Ponticello and normal: Staccato, détaché, sustained, sforzato, sforzatissimo, tremolo

Legato repetitions normal/dynamics

Cell crossfade ponticello/normal

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	sustained	sfz	tremolo	perf.rep legato
V2	détaché	sus. auto attack	sffz	trem. auto attack	perf.rep legato dyn.

**27 VA Tasto - All****Samples: 1189 RAM: 74 MB Level 2**

Sul tasto: Staccato, détaché, sustained, sforzato, tremolo

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	sustained	sfz	tremolo
V2	détaché	sus. auto attack	sfz	trem. auto attack

**28 VA Tasto XF - All****Samples: 3125 RAM: 195 MB Level 2**

Sul tasto and normal: Staccato, détaché, sustained, sforzato, tremolo

Cell crossfade tasto/normal

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	sustained	sfz	tremolo
V2	détaché	sus. auto attack	sfz	trem. auto attack

**29 VA Glissando - All****Samples: 835 RAM: 52 MB Level 2**

Single string performance glissandos

Octave glissandos

Monophonic

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
perf.gliss	C	G	D	A
octave gliss	%	%	%	%

**Matrix - LEVEL 2 C - Repetitions****31 VA Perf-Repetitions - Combi****Samples: 2310 RAM: 144 MB Level 2**

Repetition performances: Legato, portato, staccato, spiccato, harsh

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
repetitions	legato	portato	staccato	spiccato	harsh

**32 VA Perf-Repetitions - Speed****Samples: 2112 RAM: 132 MB Level 2**

Repetition performances: Legato, portato, staccato, spiccato

Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones

	H1	H2	H3	H4
repetitions	legato	portato	staccato	spiccato

**33 VA Fast-Repetitions****Samples: 396 RAM: 24 MB Level 2**

Fast repetitions: 150, 160, 170, 180, 190 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

**34 VA Ricochet-Repetitions - All****Samples: 220 RAM: 13 MB Level 2**

Ricochet repetitions: 150, 160, 170, 180, 190, 210 BPM

3 upbeats, accelerando, ritardando

**Matrix switches:** Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1
speed/BPM	150	160	170	180	190	210
3 repetitions	%	%	%	%	%	%
accelerando	%	%	%	%	%	%
ritardando	%	%	%	%	%	%

**Matrix - LEVEL 2 D - Phrases****41 VA Grace notes****Samples: 254 RAM: 15 MB Level 2**

Grace notes: Half and whole tone

Mapped to target note

Monophonic

AB switch: up/down

**Matrix switches:** Vertical: Modwheel, 2 zones

	grace notes
V1	half tone
V2	whole tone

**42 VA Grace notes - zigane****Samples: 382 RAM: 23 MB Level 2**

Grace notes, zigane (gipsy): Minor 2nd to major 3rd

Mapped to target note

AB switch: up/down

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
interval	min.2nd	maj.2nd	min.3rd	maj.3rd

**Matrix - LEVEL 2 E - Keyswitch Vel****61 VA Legato slow - cre5****Samples: 110 RAM: 6 MB Level 2**

Legato notes 1 sec.: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**62 VA Legato fast - cre5****Samples: 110 RAM: 6 MB****Level 2**

Fast legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**63 VA Portato - cre9****Samples: 198 RAM: 12 MB****Level 2**

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**64 VA Staccato - cre9****Samples: 198 RAM: 12 MB****Level 2**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**65 VA Spiccato - cre9****Samples: 198 RAM: 12 MB****Level 2**

Spiccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**66 VA Harsh - cre9****Samples: 198 RAM: 12 MB****Level 2**

Harsh notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**67 VA Combi - cre5****Samples: 220 RAM: 13 MB****Level 2**

Slow/fast legato: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

**68 VA Combi - cre9****Samples: 792 RAM: 49 MB Level 2**

Portato, staccato, spiccato, harsh: Crescendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%
harsh	1st	%	%	%	%	%	%	%	%

**71 VA Legato slow - dim5****Samples: 110 RAM: 6 MB Level 2**

Legato notes 1 sec.: Diminuendo, keyswitch velocity  
 Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**72 VA Legato fast - dim5****Samples: 110 RAM: 6 MB Level 2**

Fast legato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**73 VA Portato - dim9****Samples: 198 RAM: 12 MB Level 2**

Portato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**74 VA Staccato - dim9****Samples: 198 RAM: 12 MB Level 2**

Staccato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**75 VA Spiccato - dim9****Samples: 198 RAM: 12 MB Level 2**

Spiccato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**76 VA Harsh - dim9****Samples: 198 RAM: 12 MB Level 2**

Harsh notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**77 VA Combi - dim5****Samples: 220 RAM: 13 MB Level 2**

Slow/fast legato: Diminuendo, keyswitch velocity  
 Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

**78 VA Combi - dim9****Samples: 792 RAM: 49 MB Level 2**

Portato, staccato, spiccato, harsh: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%
harsh	1st	%	%	%	%	%	%	%	%

## Presets

**VA VSL Preset Level 1****Samples: 6863 RAM: 428 MB Level 1**

L1 VA Perf-Legato Speed + porta  
 L1 VA Articulation Combi  
 L1 VA Perf-Repetitions Combi

**VA VSL Preset Level 2****Samples: 12784 RAM: 799 MB Level 2**

01 VA Perf-Universal  
 02 VA Perf-Legato - All  
 L1 VA Articulation Combi  
 31 VA Perf-Repetitions - Combi  
 68 VA Combi - cre9  
 06 VA Perf-Harsh - Combi

## 03 Cello solo

### Description

The cello is the tenor and bass instrument of the violin family.

In the 19th century the cello advanced along with the violin to become the most important bowed instrument for solo works. The modern symphony orchestra usually uses 8 (in large orchestras 10) cellos.

### Range and notation

The cello has a range from C2–A5 (harmonic A7).

It is a non-transposing instrument notated mainly in bass clef. Because of its huge range tenor and treble clef are also used.

### Sound characteristics

Mellow, warm, sonorous, full, clear, brilliant, vibrant, singing, bright, lustrous, stately, lyrical, cantabile, thick, weighty, powerful, silky, lively, incisive, eloquent, transcendental, supernatural, sensuous, calm, round, pure, muffled, dark, open, sustaining, solemn, wafting, gentle, sweet, veiled.

The cello possesses a wide variety of differing tonal colors and means of expression, ranging from the calm and solemn in the lower register to bursts of passion in the uppermost register. It is something of a split personality: on the one hand it plays the part of the solid, reliable bass instrument; on the other hand it aspires to the passion of a heroic tenor.

### Combination with other instruments

The cello has a particularly good blend with all other instruments in the orchestra.

Its tasks range from performing the bass part to expansive melody lines in the tenor register. Cellos playing in octaves with double basses is a “classic” combination.

Woodwinds provide the strings with more volume and power, while the strings make the woodwinds more mellow. Oboe and bassoon accentuate the bright and clear properties of the cello’s sound, while the clarinet makes the cello sound more mellow.

The blend with the brass instruments is strongly influenced by the playing technique employed by the strings (pizzicato, col legno). The combination of cellos and horns played softly is particularly pleasing.

## Patches

### 01 SHORT + LONG NOTES

Range: C2–G6



**Level 1:** Staccato, short détaché, sustained with vibrato, marcato

**Level 2:** Long détaché, sustained with progressive, fading, and without vibrato, espressivo

#### 01 VC\_staccato

Samples: 424 RAM: 26 MB **Level 1**

Staccato

4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff

4 Alternations

#### 02 VC\_detache\_short

Samples: 424 RAM: 26 MB **Level 1**

Short détaché

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f

4 Alternations

#### 03 VC\_detache\_long

Samples: 424 RAM: 26 MB **Level 2**

Long détaché

4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff

4 Alternations

#### 10 VC\_sus\_Vib

Samples: 793 RAM: 49 MB **Level 1**

Sustained, vibrato

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 f; 109–127 ff

Release samples

#### 11 VC\_sus\_Vib\_fA

Samples: 424 RAM: 26 MB **Level 2**

Sustained, vibrato

Optimized attack for legato

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 f; 109–127 ff

Release samples

#### 12 VC\_sus\_Vib\_fA\_auto

Samples: 636 RAM: 39 MB **Level 2**

Sustained, vibrato

Attack automation

Monophonic

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 f; 109–127 ff

Release samples

#### 13 VC\_sus\_Vib-marc

Samples: 106 RAM: 6 MB **Level 1**

Sustained, vibrato, forte, marcato

1 velocity layer

Release samples

#### 14 VC\_sus\_Vib-espr


Samples: 212 RAM: 13 MB **Level 2**

Sustained (4 sec.), vibrato, forte, espressivo

1 velocity layer

Release samples



<b>15 VC_sus_Vib-progr</b> Sustained, progressive vibrato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 315</b>	<b>RAM: 19 MB</b>	<b>Level 2</b>
<b>16 VC_sus_Vib-down</b> Sustained, diminishing vibrato 2 velocity layers: 0–88 mf; 89–127 f	<b>Samples: 83</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>17 VC_sus_noVib</b> Sustained, no vibrato 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 f Release samples	<b>Samples: 477</b>	<b>RAM: 29 MB</b>	<b>Level 2</b>
<div> <div>02 DYNAMICS</div> <div>Range: C2–G6</div> <div>  </div> </div>			
<b>Level 1:</b> Fortepiano and sforzato <b>Level 2:</b> Medium crescendo and diminuendo with and without vibrato (1.5 and 3 sec.), strong crescendo and diminuendo with vibrato (1.5, 3, and 4 sec.), crescendo-diminuendo (2 and 4 sec.), and sforzatissimo			
<b>01 VC_dyn-me_Vib_1'5s</b> Medium dynamics, 1.5 sec., vibrato 2 velocity layers: 0–88 p–mf/mf–p; 89–127 mf–ff/ff–mf AB switch: crescendo/diminuendo	<b>Samples: 212</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>02 VC_dyn-me_Vib_3s</b> Medium dynamics, 3 sec., vibrato 2 velocity layers: 0–88 pp–mf/mf–pp; 89–127 mf–ff/ff–mf AB switch: crescendo/diminuendo	<b>Samples: 212</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>03 VC_dyn-str_Vib_1'5s</b> Strong dynamics, 1.5 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 106</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>04 VC_dyn-str_Vib_3s</b> Strong dynamics, 3 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 106</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>05 VC_dyn-str_Vib_4s</b> Strong dynamics, 4 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 78</b>	<b>RAM: 4 MB</b>	<b>Level 2</b>
<b>06 VC_dyn-me_noVib_1'5s</b> Medium dynamics, 1.5 sec., no vibrato 2 velocity layers: 0–88 p; 89–127 f AB switch: crescendo/diminuendo	<b>Samples: 108</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>



<b>07 VC_dyn-me_noVib_3s</b> Medium dynamics, 3 sec., no vibrato 2 velocity layers: 0–88 p; 89–127 f AB switch: crescendo/diminuendo	<b>Samples: 108</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>08 VC_pfp_Vib_2s</b> Crescendo-diminuendo, 2 sec., vibrato 2 velocity layers: 0–88 p–mf; 89–127 mf–f	<b>Samples: 54</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>09 VC_pfp_Vib_4s</b> Crescendo-diminuendo, 4 sec., vibrato 2 velocity layers: 0–88 p–mf; 89–127 mf–f	<b>Samples: 54</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>10 VC_fp_Vib</b> Fortepiano, vibrato 1 velocity layer	<b>Samples: 53</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
<b>11 VC_sfz_Vib</b> Sforzato, vibrato 1 velocity layer	<b>Samples: 53</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
<b>12 VC_sffz_Vib</b> Sforzatissimo, vibrato 1 velocity layer	<b>Samples: 53</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>

**03 TREMOLO + TRILLS****Range: C2–G6**

- Level 1:** Tremolo sustained, trills half and whole tone
- Level 2:** Tremolo crescendo and diminuendo (1.5 and 3 sec.), trills half and whole tone dynamics, accelerando normal and dynamics.

<b>01 VC_trem_sus</b> Tremolo sustained 3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff Release samples	<b>Samples: 318</b>	<b>RAM: 19 MB</b>	<b>Level 1</b>
<b>02 VC_trem_sus_fA</b> Tremolo sustained Optimized attack for legato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff Release samples	<b>Samples: 318</b>	<b>RAM: 19 MB</b>	<b>Level 2</b>
<b>03 VC_trem_sus_fA_auto</b> Tremolo sustained Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff Release samples	<b>Samples: 477</b>	<b>RAM: 29 MB</b>	<b>Level 1</b>

<b>04 VC_trem_dyn_1'5s</b> Tremolo dynamics, 1.5 sec. 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 106</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>05 VC_trem_dyn_3s</b> Tremolo dynamics, 3 sec. 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 106</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>10 VC_trill_1</b> Trills: Half tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: C2–A#5</b>	<b>Samples: 156</b>	<b>RAM: 9 MB</b>	<b>Level 1</b>
<b>11 VC_trill_2</b> Trills: Whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: C2–A#5</b>	<b>Samples: 156</b>	<b>RAM: 9 MB</b>	<b>Level 1</b>
<b>12 VC_trill_1_dyn</b> Trills: Half tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–A#5</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>13 VC_trill_2_dyn</b> Trills: Whole tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–A#5</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>14 VC_trill-acc_1</b> Trills: Accelerando, half tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: C2–A#5</b>	<b>Samples: 88</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>15 VC_trill-acc_2</b> Trills: Accelerando, whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: C2–A#5</b>	<b>Samples: 88</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>16 VC_trill-acc_1_dyn</b> Trills: Accelerando, half tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–A#5</b>	<b>Samples: 44</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>17 VC_trill-acc_2_dyn</b> Trills: Accelerando, whole tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–A#5</b>	<b>Samples: 44</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>

04 PIZZ + LEGNO		Range: C2–G6		
Level 1:	Pizzicato normal and snap (Bartók)			
Level 2:	Pizzicato secco, col legno			
01 VC_pizz		Samples: 312	RAM: 19 MB	Level 1
Pizzicato				
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f				
4 Alternations				
02 VC_pizz_secco		Samples: 318	RAM: 19 MB	Level 2
Pizzicato secco				
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff				
4 Alternations				
03 VC_pizz_snap		Samples: 106	RAM: 6 MB	Level 1
Snap pizzicato				
1 velocity layer				
4 Alternations				
04 VC_col-legno		Samples: 212	RAM: 13 MB	Level 2
Col legno				
2 velocity layers: 0–88 p; 89–127 f				
4 Alternations				
05 HARMONICS		Range: C3–G6		
Level 1:	Artificial harmonics staccato, sustained			
Level 2:	Artificial harmonics repetition performances; natural harmonics sustained, repetition performances, glissando			
Harmonics patches are mapped an octave lower than they sound.				
01 VC_harm-art_stac		Samples: 42	RAM: 2 MB	Level 1
Artificial harmonics: Staccato				
1 velocity layer				
2 Alternations				
02 VC_harm-art_sus		Samples: 84	RAM: 5 MB	Level 1
Artificial harmonics: Sustained				
2 velocity layers: 0–88 p; 89–127 f				
Release samples				
03 VC_harm-art_perf-rep		Samples: 105	RAM: 6 MB	Level 2
Artificial harmonics: Repetition performances				
1 velocity layer				

**11 VC\_harm-nat\_sus****Range: C3-A#6 Samples: 128 RAM: 8 MB****Level 2**

Natural harmonics: Sustained notes on every string, from fundamental to 7th harmonic

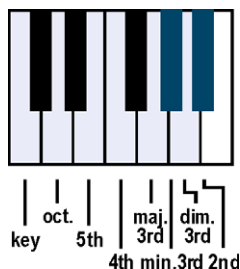
2 velocity layers: 0–88 p; 89–127 f

Release samples

**Mapping:**

C – key note; D – 1st (octave); E – 2nd (5th); F – 3rd (4th); G – 4th (maj. 3rd); G# – 5th (min. 3rd); A – 6th (dim. 3rd); A# – 7th (2nd)

C3-A#3: C string; C4-A#4: G string; C5-A#5: D string; C6-A#6: A string

**12 VC\_harm-nat\_perf-rep****Range: C3-A#6 Samples: 160 RAM: 10 MB****Level 2**

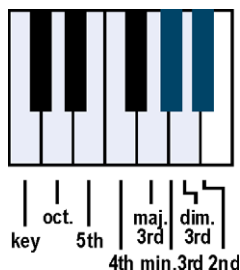
Natural harmonics: Repetition performances on every string, from fundamental to 7th harmonic

1 velocity layer

**Mapping:**

C – key note; D – 1st (octave); E – 2nd (5th); F – 3rd (4th); G – 4th (maj. 3rd); G# – 5th (min. 3rd); A – 6th (dim. 3rd); A# – 7th (2nd)

C3-A#3: C string; C4-A#4: G string; C5-A#5: D string; C6-A#6: A string

**13 VC\_harm-nat\_gliss****Range: C3-A#6 Samples: 56 RAM: 3 MB****Level 2**

Natural harmonics: Glissandos on every string, from fundamental to 1st, 2nd, etc. harmonic; reverse for downward glissandos

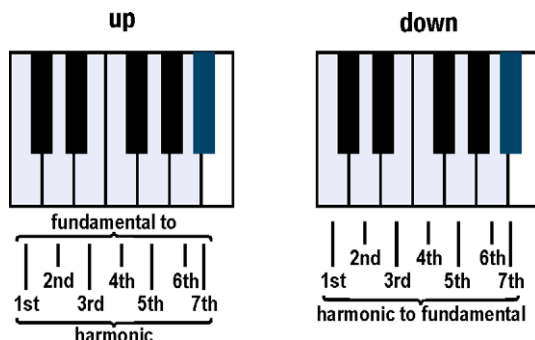
1 velocity layer

AB switch: up/down

**Mapping:**

C – key note to 1st (octave); D – to 2nd (+5th); E – to 3rd (+4th); F – to 4th (+maj 3rd); G – to 5th (+min. 3rd); A – to 6th (+dim. 3rd); A# – to 7th (+2nd)

C3-A#3: C string; C4-A#4: G string; C5-A#5: D string; C6-A#6: A string




**06 PONTICELLO****Range: C2–G6**


Ponticello – bowed near the bridge, giving a louder, brighter sound

**Level 1:** Staccato, sustained, tremolo**Level 2:** Détaché, sforzato, sforzatissimo, repetition performances normal and dynamics.

<b>01 VC_pon_staccato</b> Ponticello staccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations	<b>Range: C2–G#6</b>	<b>Samples: 228</b>	<b>RAM: 14 MB</b>	<b>Level 1</b>
<b>02 VC_pon_detache</b> Ponticello détaché 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations		<b>Samples: 230</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>03 VC_pon_sus</b> Ponticello sustained 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples		<b>Samples: 228</b>	<b>RAM: 14 MB</b>	<b>Level 1</b>
<b>04 VC_pon_sus_fA</b> Ponticello sustained Optimized attack for legato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples		<b>Samples: 228</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>05 VC_pon_sus_fA_auto</b> Ponticello sustained Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples		<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 2</b>
<b>06 VC_pon_sfz</b> Ponticello sforzato 1 velocity layer		<b>Samples: 38</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>07 VC_pon_sffz</b> Ponticello sforzatissimo 1 velocity layer		<b>Samples: 38</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>08 VC_pon_trem</b> Ponticello tremolo 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples		<b>Samples: 230</b>	<b>RAM: 14 MB</b>	<b>Level 1</b>
<b>09 VC_pon_trem_fA</b> Ponticello tremolo Optimized attack for legato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples		<b>Samples: 230</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>

<b>10 VC_pon_trem_fA_auto</b> Ponticello tremolo Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 345</b>	<b>RAM: 21 MB</b>	<b>Level 1</b>
<b>11 VC_pon_perf-rep_leg</b> Repetition performances: Ponticello legato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 270</b>	<b>RAM: 16 MB</b>	<b>Level 2</b>
<b>12 VC_pon_perf-rep_dyn_leg</b> Repetition performances: Ponticello legato, dynamics 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–E6</b> <b>Samples: 270</b>	<b>RAM: 16 MB</b>	<b>Level 2</b>
<div> <div><b>07 TASTO</b></div> <div><b>Range: C2–G6</b></div> <div>  </div> </div>			
Sul tasto or flautando – bowed near the fingerboard, resulting in a softer, muffled sound <b>Level 2:</b> Staccato, détaché, sustained, sforzato, tremolo.			
<b>01 VC_tas_staccato</b> Sul tasto staccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations	<b>Samples: 240</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>02 VC_tas_detache</b> Sul tasto détaché 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p 2 Alternations	<b>Range: C2–E6</b> <b>Samples: 240</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>03 VC_tas_sus</b> Sul tasto sustained 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 240</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>04 VC_tas_sus_fA</b> Sul tasto sustained Optimized attack for legato 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 240</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>05 VC_tas_sus_fA_auto</b> Sul tasto sustained Attack automation Monophonic 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 360</b>	<b>RAM: 22 MB</b>	<b>Level 2</b>
<b>06 VC_tas_sfz</b> Sul tasto sforzato	<b>Samples: 39</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>

1 velocity layer

<b>07 VC_tas_trem</b>	<b>Samples: 228</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>	
Sul tasto tremolo 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 mf Release samples				
<b>08 VC_tas_trem_fA</b>	<b>Samples: 228</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>	
Sul tasto tremolo Optimized attack for legato 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 mf Release samples				
<b>09 VC_tas_trem_fA_auto</b>	<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 2</b>	
Sul tasto tremolo Attack automation Monophonic 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 mf Release samples				
<b>10 PERF INTERVAL</b>				
<b>Range: C2–A#5</b>				
<b>Level 1:</b>	Legato, portamento			
<b>Level 2:</b>	Legato on the same string, with progressive vibrato, zigane (gipsy), marcato, and spiccato			
<b>01 VC_perf-legato</b>	<b>Range: C2–A5</b>	<b>Samples: 1134</b>	<b>RAM: 70 MB</b>	<b>Level 1</b>
Legato Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples				
<b>02 VC_perf-legato_sul</b>		<b>Samples: 1151</b>	<b>RAM: 71 MB</b>	<b>Level 2</b>
Legato on the same string Monophonic 2 velocity layers: 0–88 mp; 89–127 f Release samples				
<b>03 VC_perf-legato_Vib-prog</b>		<b>Samples: 583</b>	<b>RAM: 36 MB</b>	<b>Level 2</b>
Legato, forte, progressive vibrato Monophonic 1 velocity layer Release samples				
<b>04 VC_perf-legato_zigane</b>	<b>Range: C2–G#5</b>	<b>Samples: 723</b>	<b>RAM: 45 MB</b>	<b>Level 2</b>
Zigane (gipsy) Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples				



**05 VC\_perf-portamento****Samples: 1150 RAM: 71 MB****Level 1**

Portamento

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

Release samples

**06 VC\_perf-marcato****Samples: 1219 RAM: 76 MB****Level 2**

Marcato

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

Release samples

**07 VC\_perf-spiccato****Samples: 1320 RAM: 82 MB****Level 2**

Spiccato

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

**11 PERF INTERVAL FAST****Range: C2–A5****Level 1:** Legato**Level 2:** Marcato, spiccato, and harsh**01 VC\_perf-legato\_fa****Samples: 1726 RAM: 107 MB****Level 1**

Legato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**02 VC\_perf-marcato\_fa****Samples: 1868 RAM: 116 MB****Level 2**

Marcato, fast

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

Release samples

**03 VC\_perf-spiccato\_fa****Range: C2–G5****Samples: 1400 RAM: 87 MB****Level 2**

Spiccato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

**04 VC\_perf-harsh\_fa****Range: C2–G5****Samples: 348 RAM: 21 MB****Level 2**

Harsh, mezzoforte, fast

Monophonic

1 velocity layer

**12 PERF TRILL****Range: C2–D6****Level 2:** Trills, legato, minor 2nd to major 3rd**01 VC\_perf-trill\_leg****Samples: 3076 RAM: 192 MB Level 2**

Trills, legato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**13 PERF REPETITION****Range: C2–F6****Level 1:** Legato slow, staccato, spiccato**Level 2:** Legato fast, bow vibrato, portato, and harsh; dynamics for all articulations**01 VC\_perf-rep\_leg-sl****Samples: 390 RAM: 24 MB Level 1**

Legato, slow

2 velocity layers: 0–88 p; 89–127 f

**02 VC\_perf-rep\_leg-fa****Samples: 530 RAM: 33 MB Level 2**

Legato, fast

2 velocity layers: 0–88 p; 89–127 f

**03 VC\_perf-rep\_bow****Samples: 270 RAM: 16 MB Level 2**

Bow vibrato

2 velocity layers: 0–88 p; 89–127 f

**04 VC\_perf-rep\_por****Samples: 702 RAM: 43 MB Level 2**

Portato

2 velocity layers: 0–88 p; 89–127 f

**05 VC\_perf-rep\_sta****Samples: 954 RAM: 59 MB Level 1**

Staccato

2 velocity layers: 0–88 p; 89–127 f

**06 VC\_perf-rep\_spi****Samples: 729 RAM: 45 MB Level 1**

Spiccato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

**07 VC\_perf-rep\_harsh****Samples: 243 RAM: 15 MB Level 2**

Harsh, mezzoforte

1 velocity layer


**21 VC\_perf-rep\_dyn5\_leg-sl****Range: C2–G6****Samples: 390 RAM: 24 MB Level 2**

Legato dynamics, slow, 5 repetitions

1 velocity layer

AB switch: crescendo/diminuendo

<b>22 VC_perf-rep_dyn5_leg-fa</b> Legato dynamics, fast, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–G6</b>	<b>Samples: 530</b>	<b>RAM: 33 MB</b>	<b>Level 2</b>
<b>23 VC_perf-rep_dyn5_bow</b> Bow vibrato dynamics, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–G6</b>	<b>Samples: 270</b>	<b>RAM: 16 MB</b>	<b>Level 2</b>
<b>24 VC_perf-rep_dyn9_por</b> Portato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–G6</b>	<b>Samples: 702</b>	<b>RAM: 43 MB</b>	<b>Level 2</b>
<b>25 VC_perf-rep_dyn9_sta</b> Staccato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–G6</b>	<b>Samples: 954</b>	<b>RAM: 59 MB</b>	<b>Level 2</b>
<b>26 VC_perf-rep_dyn9_spi</b> Spiccato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–E6</b>	<b>Samples: 486</b>	<b>RAM: 30 MB</b>	<b>Level 2</b>
<b>27 VC_perf-rep_dyn9_harsh</b> Harsh dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: C2–E6</b>	<b>Samples: 486</b>	<b>RAM: 30 MB</b>	<b>Level 2</b>

14 FAST REPETITION		Range: C2–F6		
Level 2:	9 repetitions, normal and dynamics, speeds from 140 to 180 BPM Ricochet – the bow is cast onto the string and rebounding: normal with 150 to 190 and 210 BPM, 3 quick repetitions, accelerando, ritardando			
01 VC_fast-rep_140 (150/160/170/180)		Samples: 212	RAM: 13 MB	Level 2
Staccato, 9 repetitions, 140, 150, 160, 170, 180 BPM 2 velocity layers: 0–88 p; 89–127 f Release samples				
11 VC_fast-rep_140_dyn (150/160/170/180)		Samples: 106	RAM: 6 MB	Level 2
Staccato dynamics, 9 repetitions, 140, 150, 160, 170, 180 BPM 1 velocity layer AB switch: crescendo/diminuendo				
21 VC_ricochet_150 (160/170/180/190/210)		Samples: 54	RAM: 3 MB	Level 2
Ricochet, 5 repetitions, 150, 160, 170, 180, 190, 210 BPM 1 velocity layer Release samples				

<b>31 VC_ricochet_a3</b> Ricochet, 3 repetitions 1 velocity layer	<b>Samples: 27</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>32 VC_ricochet_accel</b> Ricochet accelerando 1 velocity layer	<b>Samples: 27</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>33 VC_ricochet_ritard</b> Ricochet ritardando 1 velocity layer	<b>Samples: 27</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>

## 15 GRACE NOTES



**Level 2:** Grace notes, half and whole tone; zigane grace notes, minor 2nd to major 3rd.

<b>01 VC_grace_1</b> Grace notes, half tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: C2–F#6</b>	<b>Samples: 210</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>02 VC_grace_2</b> Grace notes, whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: C2–G6</b>	<b>Samples: 210</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>11 VC_grace-zigane-1</b> Grace notes, zigane, half tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: C2–G5</b>	<b>Samples: 190</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>12 VC_grace-zigane-2</b> Grace notes, zigane, whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: C2–G5</b>	<b>Samples: 190</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>13 VC_grace-zigane-3</b> Grace notes, zigane, minor 3rd 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: C2–G5</b>	<b>Samples: 186</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>14 VC_grace-zigane-4</b> Grace notes, zigane, major 3rd 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down	<b>Range: C2–G5</b>	<b>Samples: 186</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>



## 16 GLISSANDI

**Level 1:** Medium and fast octave glissandos, up and down

**Level 2:** Glissandos on every string

<b>01 VC_perf-gliss_C</b> Phrase performances: Glissando, C string Monophonic 1 velocity layer Release samples	<b>Range: C2–A3</b>	<b>Samples: 253</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>02 VC_perf-gliss_G</b> Phrase performances: Glissando, G string Monophonic 1 velocity layer Release samples	<b>Range: G2–E4</b>	<b>Samples: 253</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>03 VC_perf-gliss_D</b> Phrase performances: Glissando, D string Monophonic 1 velocity layer Release samples	<b>Range: D3–B4</b>	<b>Samples: 253</b>	<b>RAM: 15 MB</b>	<b>Level 2</b>
<b>04 VC_perf-gliss_A</b> Phrase performances: Glissando, A string Monophonic 1 velocity layer Release samples	<b>Range: A3–A#5</b>	<b>Samples: 309</b>	<b>RAM: 19 MB</b>	<b>Level 2</b>
<b>05 VC_octav-gliss_me</b> Phrases: Octave glissando, medium 1 velocity layer AB switch: up/down	<b>Range: C2–A#5</b>	<b>Samples: 36</b>	<b>RAM: 2 MB</b>	<b>Level 1</b>
<b>06 VC_octav-gliss_fa</b> Phrases: Octave glissando, fast 1 velocity layer AB switch: up/down	<b>Range: C2–A#5</b>	<b>Samples: 32</b>	<b>RAM: 2 MB</b>	<b>Level 1</b>

## 98 RESOURCES

**Level 2:** Isolated dynamics repetitions, single layer long notes, interval performance speed variations.

<b>01 Perf Rep dyn</b>	<b>Range: C2–G6</b>			
<b>01_VC_rep_cre5_leg-sl-1 (2/3/4/5)</b> Extracted repetitions: Legato slow, crescendo, 1st to 5th note 1 velocity layer		<b>Samples: 39</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>01_VC_rep_dim5_leg-sl-1 (2/3/4/5)</b> Extracted repetitions: Legato slow, diminuendo, 1st to 5th note 1 velocity layer		<b>Samples: 39</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>

<b>02_VC_rep_cre5_leg-fa-1 (2/3/4/5)</b> Extracted repetitions: Legato fast, crescendo, 1st to 5th note 1 velocity layer	<b>Samples: 53</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>02_VC_rep_dim5_leg-fa-1 (2/3/4/5)</b> Extracted repetitions: Legato fast, diminuendo, 1st to 5th note 1 velocity layer	<b>Samples: 53</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>03_VC_rep_cre9_por-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Portato, crescendo, 1st to 9th note 1 velocity layer	<b>Samples: 39</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>03_VC_rep_dim9_por-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Portato, diminuendo, 1st to 9th note 1 velocity layer	<b>Samples: 39</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>04_VC_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Staccato, crescendo, 1st to 9th note 1 velocity layer	<b>Samples: 53</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>04_VC_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Staccato, diminuendo, 1st to 9th note 1 velocity layer	<b>Samples: 53</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
<b>05_VC_rep_cre9_spi-1 (2/3/4/5/6/7/8/9)</b> <b>Range: C2–E6</b> Extracted repetitions: Spiccato, crescendo, 1st to 9th note 1 velocity layer	<b>Samples: 27</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>05_VC_rep_dim9_spi-1 (2/3/4/5/6/7/8/9)</b> <b>Range: C2–E6</b> Extracted repetitions: Spiccato, diminuendo, 1st to 9th note 1 velocity layer	<b>Samples: 27</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>06_VC_rep_cre9_harsh-1 (2/3/4/5/6/7/8/9)</b> <b>Range: C2–E6</b> Extracted repetitions: Harsh, crescendo, 1st to 9th note 1 velocity layer	<b>Samples: 27</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>06_VC_rep_dim9_harsh-1 (2/3/4/5/6/7/8/9)</b> <b>Range: C2–E6</b> Extracted repetitions: Harsh, diminuendo, 1st to 9th note 1 velocity layer	<b>Samples: 27</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>

**02 Long Notes - Single Layer****Range: C2–G6**

<b>01_VC_sus_Vib-pp</b> Single notes: Sustained, vibrato, pp 1 velocity layer Release samples	<b>Samples: 106</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>02_VC_sus_Vib-mp</b> Single notes: Sustained, vibrato, mp 1 velocity layer Release samples	<b>Samples: 159</b>	<b>RAM: 9 MB</b>	<b>Level 2</b>

**03 VC\_sus\_Vib-f****Samples: 212   RAM: 13 MB   Level 2**

Single notes: Sustained, vibrato, f  
 1 velocity layer  
 Release samples

**04 VC\_sus\_Vib-ff****Samples: 318   RAM: 19 MB   Level 2**

Single notes: Sustained, vibrato, ff  
 1 velocity layer  
 Release samples

**03 Perf Speed variation****01 VC\_perf-legato\_me****Range: C2-A5   Samples: 1374   RAM: 85 MB   Level 2**

Interval performances: Legato, medium speed  
 Monophonic  
 2 velocity layers: 0–88 p; 89–127 f  
 Release samples

**03 VC\_stac-spic****Range: C2-A#5   Samples: 212   RAM: 13 MB   Level 2**

Single notes: Staccato/spiccato  
 2 velocity layers: 0–88 p; 89–127 f

**99 RELEASE**

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

# Matrices

## Matrix - LEVEL 1

### L1 VC Articulation Combi

Samples: 4002 RAM: 250 MB **Level 1**

Single note articulations: Normal, ponticello, artificial harmonics, glissandos, pizzicato

**Matrix switches:** Horizontal: Keyswitches, C1–A1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	stac	sus	fp	trem	trill half	pon.stac	pon.trem	harm.stac	med.gliss	pizz.
V2	dét. short	marc	sfz	trem auto	trill whole	pon.sus	pon.trem auto	harm.sus	fast gliss	snap pizz.

### L1 VC Perf-Legato Speed + porta

Samples: 2962 RAM: 185 MB **Level 1**

Interval performances: Legato slow and fast, portamento

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
V1	legato slow	legato fast
V2	portamento	legato fast

### L1 VC Perf-Repetitions Combi

Samples: 2073 RAM: 129 MB **Level 1**

Repetition performances: Slow legato, staccato, spiccato

**Matrix switches:** Vertical: Modwheel, 3 zones

	repetitions
V1	legato
V2	staccato
V3	spiccato

## Matrix - LEVEL 2 A - Advanced

### 01 VC Perf-Universal

Samples: 6183 RAM: 386 MB **Level 2**

Interval performances: Legato, marcato, spiccato; slow and fast

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones Vertical: Modwheel, 3 zones

	H1	H2	H3	H4
legato	slow	medium	medium	fast
marcato	slow	slow	fast	fast
spiccato	stac/spic	stac/spic	slow	fast

### 02 VC Perf-Legato - All

Samples: 4043 RAM: 252 MB **Level 2**

Interval performances: Legato straight, on one string, zigane, progressive vibrato, portamento

Monophonic

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
legato	normal	one string	zigane	prog.vibrato
portamento	%	%	%	%



**03 VC Perf-Trill Speed****Samples: 3604 RAM: 225 MB Level 2**

Multi interval performances: Legato and trills  
 Monophonic, Speed controller

	H1	H2
V1	legato	trills

**04 VC Perf-Trill Speed - Combi****Samples: 5041 RAM: 315 MB Level 2**

Multi interval performances: Legato, zigane, portamento, trills  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

	H1	H2
V1	legato	trills
V2	zigane	trills
V3	portamento	trills

**05 VC Short+Long notes - All****Samples: 2675 RAM: 167 MB Level 2**

Staccato, détaché short and long, sustained  
 Vibrato variations

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 5 zones

	C1	C#1	D1	D#1
V1	staccato	détaché short	détaché long	sustained vibrato
V2	%	%	%	no vibrato
V3	%	%	%	prog. vibrato
V4	%	%	%	marcato
V5	%	%	%	vib. down

**06 VC Perf-Harsh - Combi****Samples: 1474 RAM: 92 MB Level 2**

Sustained, vibrato variations, ponticello; all with harsh attack  
 Cell crossfade for vibrato/no vibrato sustain

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	sus-vib./no vib.	sus-progr.vib.	ponticello	harsh

**Matrix - LEVEL 2 B - Standard****11 VC Perf-Legato Speed****Samples: 2276 RAM: 142 MB Level 2**

Interval performances: Legato slow and fast  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	medium	fast

**12 VC Perf-Marcato Speed****Samples: 2261 RAM: 141 MB Level 2**

Interval performances: Marcato slow and fast  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
marcato	slow	fast

**13 VC Perf-Spiccato Speed****Samples: 1844 RAM: 115 MB Level 2**

Interval performances: Staccato/spiccato, performance spiccato slow and fast

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
spiccato	stac/spic	slow	fast

**14 VC Short notes - All****Samples: 1272 RAM: 79 MB Level 2**

Staccato, détaché short, détaché long

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
short notes	staccato	détaché short	détaché long

**15 VC Long notes - All****Samples: 1562 RAM: 97 MB Level 2**

Sustained with vibrato, marcato, espressivo, progressive, fading, and no vibrato

**Matrix switches:** Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
sustained	vibrato	marcato	espressivo	progr. vibrato	fading vibrato	no vibrato

**16 VC Dynamics - Small****Samples: 661 RAM: 41 MB Level 2**

Medium dynamics: Crescendo/diminuendo with vibrato 1.5, 3, 4 sec., fortepiano, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
medium dyn. vib.	1.5 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

**17 VC Dynamics - All****Samples: 1197 RAM: 74 MB Level 2**

Dynamics: Crescendo/diminuendo medium with and without vibrato, strong with vibrato, cresc-dim 2 and 4 sec., fortepiano, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 5 zones

	C1	C#1	D1
medium dyn. vib.	1.5sec.	3sec.	3sec.
strong dyn. vib.	1.5sec.	3sec.	4sec.
med.dyn. no vib.	1.5sec.	3sec.	3sec.
special dyn.	pfp 2sec.	pfp 4sec.	pfp 4sec.
special dyn.	fp	sfz	sffz

**18 VC Tremolo - All****Samples: 689 RAM: 43 MB Level 2**

Tremolo: sustained, sustained with attack automation, dynamics 1.5 and 3 sec.

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
tremolo	sustained	auto attack	dyn. 1.5sec.	dyn. 3sec.

**19 VC Trills - normal****Samples: 416 RAM: 26 MB Level 2**

Trills: normal and dynamics, half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

**20 VC Trills - accelerando****Samples: 264 RAM: 16 MB Level 2**

Trills accelerando: normal and dynamics, half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

**21 VC Trills - All****Samples: 680 RAM: 42 MB Level 2**

Trills: constant speed and accelerando, normal and dynamics, half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
half tone	normal	dynamics	accelerando	acc. dynamics
whole tone	normal	dynamics	accelerando	acc. dynamics

**22 VC Pizzicato + Legno - All****Samples: 947 RAM: 59 MB Level 2**

Pizzicato normal, secco, and snap

Col legno

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 3 zones

	C1	C#1
V1	pizzicato normal	col legno
V2	pizz. secco	col legno
V3	pizz. snap	col legno

**23 VC Harmonics artificial - All****Samples: 231 RAM: 14 MB Level 2**

Artificial harmonics: Staccato, sustained, repetition performances

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
harmonics artificial	staccato	sustained	perf. repetition

**24 VC Harmonics natural - All****Samples: 344 RAM: 21 MB Level 2**

Natural harmonics: Sustained, repetition performances, glissando

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
harmonics natural	sustained	perf. repetition	glissando

**25 VC Ponticello - All****Samples: 1761 RAM: 110 MB Level 2**

Ponticello: Staccato, détaché, sustained, sforzato, sforzatissimo, tremolo, legato repetitions normal/dynamics

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	sustained	sfz	tremolo	perf.rep legato
V2	détaché	sus. auto attack	sffz	trem. auto attack	perf.rep legato dyn.

**26 VC Ponticello XF - All****Samples: 4979 RAM: 311 MB Level 2**

Ponticello and normal: Staccato, détaché, sustained, sforzato, sforzatissimo, tremolo, legato repetitions normal/dynamics  
Cell crossfade ponticello/normal

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	sustained	sfz	tremolo	perf.rep legato
V2	détaché	sus. auto attack	sfz	trem. auto attack	perf.rep legato dyn.

**27 VC Tasto - All****Samples: 1215 RAM: 75 MB Level 2**

Sul tasto: Staccato, détaché, sustained, sforzato, tremolo

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	sustained	sfz	tremolo
V2	détaché	sus. auto attack	sfz	trem. auto attack

**28 VC Tasto XF - All****Samples: 3653 RAM: 228 MB Level 2**

Sul tasto and normal: Staccato, détaché, sustained, sforzato, tremolo  
Cell crossfade tasto/normal

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	sustained	sfz	tremolo
V2	détaché	sus. auto attack	sfz	trem. auto attack

**29 VC Glissando - All****Samples: 887 RAM: 55 MB Level 2**

Single string performance glissandos  
Medium and fast octave glissandos  
Monophonic

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
perf.gliss	C string	G string	D string	A string
octave gliss	medium	medium	medium	medium
octave gliss	fast	fast	fast	fast

**Matrix - LEVEL 2 C - Repetitions****31 VC Perf-Repetitions - Combi****Samples: 3018 RAM: 188 MB Level 2**

Repetition performances: Legato, portato, staccato, spiccato, harsh

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
repetitions	legato	portato	staccato	spiccato	harsh

**32 VC Perf-Repetitions - Speed****Samples: 2775 RAM: 173 MB Level 2**

Repetition performances: Legato, portato, staccato, spiccato  
Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones

	H1	H2	H3	H4
repetitions	legato	portato	staccato	spiccato

**33 VC Fast-Repetitions****Samples: 636 RAM: 39 MB Level 2**

Fast repetitions: 140, 150, 160, 170, 180 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	140	150	160	170	180

**34 VC Ricochet-Repetitions - All****Samples: 270 RAM: 16 MB Level 2**

Ricochet repetitions: 150, 160, 170, 180, 190, 210 BPM, 3 upbeats, accelerando, ritardando

**Matrix switches:** Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1
speed/BPM	150	160	170	180	190	210
3 repetitions	%	%	%	%	%	%
accelerando	%	%	%	%	%	%
ritardando	%	%	%	%	%	%

**Matrix - LEVEL 2 D - Phrases****41 VC Grace notes****Samples: 314 RAM: 19 MB Level 2**

Grace notes: Half and whole tone

Mapped to target note

Monophonic

AB switch: up/down

**Matrix switches:** Vertical: Modwheel, 2 zones

	interval
V1	half tone
V2	whole tone

**42 VC Grace notes - zigane****Samples: 434 RAM: 27 MB Level 2**

Grace notes, zigane (gipsy): Minor 2nd to major 3rd

Mapped to target note AB switch up/down

AB switch: up/down

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
interval	min.2nd	maj.2nd	min.3rd	maj.3rd

**Matrix - LEVEL 2 E - Keyswitch Vel****61 VC Legato slow - cre5****Samples: 195 RAM: 12 MB Level 2**

Legato notes 1 sec.: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**62 VC Legato fast - cre5****Samples: 265 RAM: 16 MB Level 2**

Fast legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**63 VC Portato - cre9****Samples: 351 RAM: 21 MB Level 2**

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**64 VC Staccato - cre9****Samples: 477 RAM: 29 MB Level 2**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**65 VC Spiccato - cre9****Samples: 216 RAM: 13 MB Level 2**

Spiccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**66 VC Harsh - cre9****Samples: 243 RAM: 15 MB Level 2**

Harsh notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**67 VC Combi - cre5****Samples: 460 RAM: 28 MB Level 2**

Slow/fast legato: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

**68 VC Combi - cre9****Samples: 1287 RAM: 80 MB****Level 2**

Portato, staccato, spiccato, harsh: Crescendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%
harsh	1st	%	%	%	%	%	%	%	%

**71 VC Legato slow - dim5****Samples: 195 RAM: 12 MB****Level 2**

Legato notes 1 sec.: Diminuendo, keyswitch velocity  
 Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**72 VC Legato fast - dim5****Samples: 265 RAM: 16 MB****Level 2**

Fast legato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**73 VC Portato - dim9****Samples: 351 RAM: 21 MB****Level 2**

Portato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**74 VC Staccato - dim9****Samples: 477 RAM: 29 MB****Level 2**

Staccato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**75 VC Spiccato - dim9****Samples: 243 RAM: 15 MB****Level 2**

Spiccato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**76 VC Harsh - dim9****Samples: 243 RAM: 15 MB****Level 2**

Harsh notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**77 VC Combi - dim5****Samples: 460 RAM: 28 MB Level 2**

Slow/fast legato: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

**78 VC Combi - dim9****Samples: 1314 RAM: 82 MB Level 2**

Portato, staccato, spiccato, harsh: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%
harsh	1st	%	%	%	%	%	%	%	%

**Presets****VC VSL Preset Level 1****Samples: 8840 RAM: 552 MB Level 1**

L1 VC Perf-Legato Speed + porta

L1 VC Articulation Combi

L1 VC Perf-Repetitions Combi

**VC VSL Preset Level 2****Samples: 16211 RAM: 1013 MB Level 2**

01 VC Perf-Universal

02 VC Perf-Legato - All

L1 VC Articulation Combi

31 VC Perf-Repetitions - Combi

68 VC Combi - cre9

06 VC Perf-Harsh - Combi



## 04 Bass solo

### Description

The double bass is the contrabass instrument of the string section and, with its sloping shoulders and its string tuning to fourths, is not strictly speaking a member of the violin family (violin, viola, cello).

The modern symphony orchestra usually uses 6 (in especially large orchestras 8) double basses.

### Range and notation

The double bass has a range from B<sub>0</sub>–G<sub>4</sub> (harmonic G<sub>6</sub>).

It is the only transposing stringed instrument. Because of its deep pitch, its notation is written an octave higher than its sounds, in bass clef.

### Sound characteristics

Heavy, weighty, dark, weightless, wafting, somber, earthy, resonant, rasping, broad, hollow, dull, mighty, menacing, violent, mellow, sustaining, aspirate.

Like the tuba, the double bass lacks the high partials due to its great size, although the first six partials are especially prominent which makes the timbre dark, broad and smooth.

### Combination with other instruments

The double bass, as the fundamental bass instrument, is capable of particularly good tonal combinations with all the other instruments, especially with its smaller partner the cello and all harmony instruments as well. Its powerful sound must provide a solid foundation which can support the sound structure and with which the other instruments blend. On the other hand it is also capable of playing melody lines, solo lines which stand out.

The double bass blends well with the low woodwinds (bass clarinet and contrabassoon) and brass instruments (horn, trombone, tuba).

## Patches

### 01 SHORT + LONG NOTES

Range: B0–G4



**Level 1:** Staccato, short détaché, sustained with vibrato, marcato

**Level 2:** Long détaché, sustained with progressive, fading, and without vibrato

#### 01 DB\_staccato

Samples: 296 RAM: 18 MB **Level 1**

Staccato

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 f; 109–127 ff

4 Alternations

#### 02 DB\_detache\_short

Samples: 370 RAM: 23 MB **Level 1**

Short détaché

5 velocity layers: 0–28 pp; 29–55 mp; 56–88 mf; 89–108 f; 109–127 ff

4 Alternations

#### 03 DB\_detache\_long

Samples: 296 RAM: 18 MB **Level 2**

Long détaché

4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f

4 Alternations

#### 10 DB\_sus\_Vib

Samples: 481 RAM: 30 MB **Level 1**

Sustained, vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

#### 11 DB\_sus\_Vib\_fA

Samples: 259 RAM: 16 MB **Level 2**

Sustained, vibrato

Optimized attack for legato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

#### 12 DB\_sus\_Vib\_fA\_auto

Samples: 407 RAM: 25 MB **Level 2**

Sustained, vibrato

Attack automation

Monophonic

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

#### 13 DB\_sus\_Vib-marc

Samples: 74 RAM: 4 MB **Level 1**

Sustained, vibrato, marcato

1 velocity layer

Release samples


#### 14 DB\_sus\_Vib-progr


Samples: 222 RAM: 13 MB **Level 2**

Sustained, progressive vibrato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

<b>15 DB_sus_Vib-down</b> Sustained, diminishing vibrato 2 velocity layers: 0–88 mf; 89–127 f	<b>Range: B0–F4</b>	<b>Samples: 110</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
<b>16 DB_sus_noVib</b> Sustained, no vibrato 3 velocity layers: 0–55 pp; 56–108 mp; 109–127 f Release samples		<b>Samples: 333</b>	<b>RAM: 20 MB</b>	<b>Level 2</b>
<b>02 DYNAMICS</b>				
<b>Range: B0–G4</b>				
<b>Level 1:</b> Fortepiano and sforzato <b>Level 2:</b> Medium crescendo and diminuendo without vibrato (1.5 and 3 sec.), strong crescendo and diminuendo with vibrato (1.5, 3, and 4 sec.), crescendo-diminuendo (2 and 4 sec.), sforzatissimo				
<b>01 DB_dyn-str_Vib_1'5s</b> Strong dynamics, 1.5 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 74</b>	<b>RAM: 4 MB</b>	<b>Level 2</b>
<b>02 DB_dyn-str_Vib_3s</b> Strong dynamics, 3 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 74</b>	<b>RAM: 4 MB</b>	<b>Level 2</b>
<b>03 DB_dyn-str_Vib_4s</b> Strong dynamics, 4 sec., vibrato 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 74</b>	<b>RAM: 4 MB</b>	<b>Level 2</b>
<b>04 DB_dyn-me_noVib_1'5s</b> Medium dynamics, 1.5 sec., no vibrato 2 velocity layers: 0–88 p/mf; 89–127 mf/f AB switch: crescendo/diminuendo		<b>Samples: 148</b>	<b>RAM: 9 MB</b>	<b>Level 2</b>
<b>05 DB_dyn-me_noVib_3s</b> Medium dynamics, 3 sec., no vibrato 2 velocity layers: 0–88 pp-mf/mf-pp; 89–127 mf-ff/ff-mf AB switch: crescendo/diminuendo		<b>Samples: 76</b>	<b>RAM: 4 MB</b>	<b>Level 2</b>
<b>06 DB_pfp_Vib_2s</b> Crescendo-diminuendo, 2 sec., vibrato 2 velocity layers: 0–88 p-mf; 89–127 mf-f		<b>Samples: 38</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>07 DB_pfp_Vib_4s</b> Crescendo-diminuendo, 4 sec., vibrato 1 velocity layer		<b>Samples: 18</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>08 DB_fp_Vib</b> Fortepiano, vibrato 1 velocity layer		<b>Samples: 37</b>	<b>RAM: 2 MB</b>	<b>Level 1</b>

<b>09 DB_sfz_Vib</b> Sforzato, vibrato 1 velocity layer		<b>Samples: 37</b>	<b>RAM: 2 MB</b>	<b>Level 1</b>
<b>10 DB_sffz_Vib</b> Sforzatissimo, vibrato 1 velocity layer		<b>Samples: 37</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>03 TREMOLO + TRILLS</b> <b>Range: B0–G4</b> 				
<b>Level 1:</b>	Tremolo sustained, trills half and whole tone			
<b>Level 2:</b>	Tremolo crescendo and diminuendo (1.5 and 3 sec.), trills half and whole tone dynamics			
<b>01 DB_trem_sus</b> Tremolo sustained 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 f Release samples		<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 1</b>
<b>02 DB_trem_sus_fA</b> Tremolo sustained Optimized attack for legato 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 f Release samples		<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>03 DB_trem_sus_fA_auto</b> Tremolo sustained Attack automation Monophonic 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 f Release samples		<b>Samples: 333</b>	<b>RAM: 20 MB</b>	<b>Level 1</b>
<b>10 DB_trill_1</b> Trills: Half tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: B0–C4</b>	<b>Samples: 60</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
<b>11 DB_trill_2</b> Trills: Whole tone 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Range: B0–C4</b>	<b>Samples: 60</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
<b>12 DB_trill_1_dyn</b> Trills: Half tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: B0–C4</b>	<b>Samples: 30</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>13 DB_trill_2_dyn</b> Trills: Whole tone, dynamics 1 velocity layer AB switch: crescendo/diminuendo	<b>Range: B0–C4</b>	<b>Samples: 30</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>

**04 PIZZ + LEGNO****Range: B0–G4****Level 1:** Pizzicato, normal and snap (Bartók)**Level 2:** Col legno.**01 DB\_pizz****Samples: 222 RAM: 13 MB Level 1**

Pizzicato

3 velocity layers: 0–55 pp; 56–108 mp; 109–127 mf

4 Alternations

**02 DB\_pizz\_snap****Samples: 148 RAM: 9 MB Level 1**

Snap pizzicato

2 velocity layers: 0–88 mf; 89–127 f

4 Alternations

**03 DB\_col-legno****Samples: 148 RAM: 9 MB Level 2**

Col legno

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

**05 HARMONICS****Range: D3–A5****Level 1:** Artificial harmonics staccato, sustained**Level 2:** Artificial harmonics repetition performances, natural harmonics sustained, repetition performances, glissando.

Harmonics patches are mapped an octave lower than they sound.

**01 DB\_harm-art\_stac****Samples: 30 RAM: 1 MB Level 1**

Artificial harmonics: Staccato

1 velocity layer

2 Alternations

**02 DB\_harm-art\_sus****Samples: 60 RAM: 3 MB Level 1**

Artificial harmonics: Sustained

2 velocity layers: 0–88 p; 89–127 f

Release samples

**03 DB\_harm-art\_perf-rep****Samples: 75 RAM: 4 MB Level 2**

Artificial harmonics: Repetition performances

1 velocity layer

**11 DB\_harm-nat\_sus****Range: C2-A#5 Samples: 128 RAM: 8 MB****Level 2**

Natural harmonics: Sustained notes on every string, from fundamental to 7th harmonic

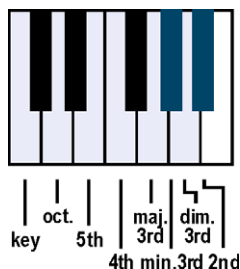
2 velocity layers: 0–88 p; 89–127 f

Release samples

**Mapping:**

C – key note; D – 1st (octave); E – 2nd (5th); F – 3rd (4th); G – 4th (maj. 3rd); G# – 5th (min. 3rd); A – 6th (dim. 3rd); A# – 7th (2nd)

C2-A#2: E string; C3-A#3: A string; C4-A#4: D string; C5-A#5: G string

**12 DB\_harm-nat\_perf-rep****Range: C2-A#5 Samples: 160 RAM: 10 MB****Level 2**

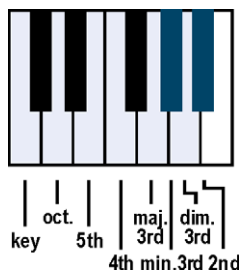
Natural harmonics: Repetition performances on every string, from fundamental to 7th harmonic

1 velocity layer

**Mapping:**

C – key note; D – 1st (octave); E – 2nd (5th); F – 3rd (4th); G – 4th (maj. 3rd); G# – 5th (min. 3rd); A – 6th (dim. 3rd); A# – 7th (2nd)

C2-A#2: E string; C3-A#3: A string; C4-A#4: D string; C5-A#5: G string

**13 DB\_harm-nat\_gliss****Range: C2-A#5 Samples: 56 RAM: 3 MB****Level 2**

Natural harmonics: Glissandos on every string, from fundamental to 1st, 2nd, etc. harmonic; reverse for downward glissandos

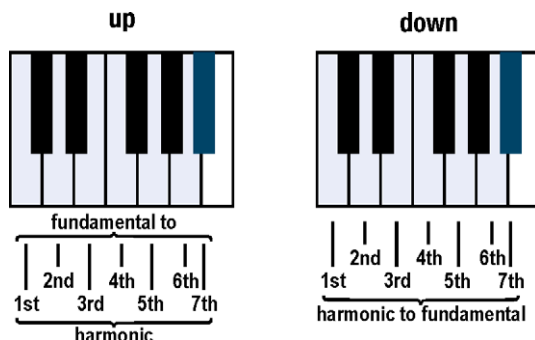
1 velocity layer

AB switch: up/down

**Mapping:**

C – key note to 1st (octave); D – to 2nd (+5th); E – to 3rd (+4th); F – to 4th (+maj 3rd); G – to 5th (+min. 3rd); A – to 6th (+dim. 3rd); A# – to 7th (+2nd)

C2-A#2: E string; C3-A#3: A string; C4-A#4: D string; C5-A#5: G string




**06 PONTICELLO****Range: B0–G4**


Ponticello – bowed near the bridge, giving a louder, brighter sound.

**Level 1:** Staccato, sustained, tremolo**Level 2:** Détaché, sforzato, sforzatissimo, repetition performances normal and dynamics

<b>01 DB_pon_staccato</b> Ponticello staccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations	<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 1</b>
<b>02 DB_pon_detache</b> Ponticello détaché 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations	<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>03 DB_pon_sus</b> Ponticello sustained 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 1</b>
<b>04 DB_pon_sus_fA</b> Ponticello sustained Optimized attack for legato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>05 DB_pon_sus_fA_auto</b> Ponticello sustained Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 333</b>	<b>RAM: 20 MB</b>	<b>Level 2</b>
<b>06 DB_pon_sfz</b> Ponticello sforzato 1 velocity layer	<b>Samples: 37</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>07 DB_pon_sffz</b> Ponticello sforzatissimo 1 velocity layer	<b>Samples: 37</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>08 DB_pon_trem</b> Ponticello tremolo 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 114</b>	<b>RAM: 7 MB</b>	<b>Level 1</b>
<b>09 DB_pon_trem_fA</b> Ponticello tremolo Optimized attack for legato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 114</b>	<b>RAM: 7 MB</b>	<b>Level 2</b>

<b>10 DB_pon_trem_fA_auto</b> Ponticello tremolo Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples	<b>Samples: 171</b>	<b>RAM: 10 MB</b>	<b>Level 1</b>
<b>11 DB_pon_perf-rep_leg</b> Repetition performances: Ponticello legato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 190</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>12 DB_pon_perf-rep_dyn_leg</b> Repetition performances: Ponticello legato, dynamics 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 190</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<div> <div>07 TASTO</div> <div>Range: B0–G4</div> <div>  </div> </div>			
Sul tasto or flautando – bowed near the fingerboard, resulting in a softer, muffled sound			
<b>Level 2:</b> Staccato, détaché, sustained, sforzato, tremolo			
<b>01 DB_tas_staccato</b> Sul tasto staccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations	<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>02 DB_tas_detache</b> Sul tasto détaché 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p 2 Alternations	<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>03 DB_tas_sus</b> Sul tasto sustained 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>04 DB_tas_sus_fA</b> Sul tasto sustained Optimized attack for legato 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
<b>05 DB_tas_sus_fA_auto</b> Sul tasto sustained Attack automation Monophonic 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 333</b>	<b>RAM: 20 MB</b>	<b>Level 2</b>



<b>06 DB_tas_sfz</b> Sul tasto sforzato 1 velocity layer	<b>Samples: 37</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
<b>07 DB_tas_trem</b> Sul tasto tremolo 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 114</b>	<b>RAM: 7 MB</b>	<b>Level 2</b>
<b>08 DB_tas_trem_fA</b> Sul tasto tremolo Optimized attack for legato 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 114</b>	<b>RAM: 7 MB</b>	<b>Level 2</b>
<b>09 DB_tas_trem_fA_auto</b> Sul tasto tremolo Attack automation Monophonic 3 velocity layers: 0–55 ppp; 56–108 pp; 109–127 p Release samples	<b>Samples: 171</b>	<b>RAM: 10 MB</b>	<b>Level 2</b>
<b>10 PERF INTERVAL</b> <b>Range: B0–C4</b> 			
<b>Level 1:</b> Legato, portamento <b>Level 2:</b> Marcato and spiccato			
<b>01 DB_perf-legato</b> Legato Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Samples: 734</b>	<b>RAM: 45 MB</b>	<b>Level 1</b>
<b>02 DB_perf-portamento</b> Portamento Monophonic 2 velocity layers: 0–88 mp; 89–127 f Release samples	<b>Samples: 746</b>	<b>RAM: 46 MB</b>	<b>Level 1</b>
<b>03 DB_perf-marcato</b> Marcato Monophonic 2 velocity layers: 0–88 mp; 89–127 f Release samples	<b>Samples: 1024</b>	<b>RAM: 64 MB</b>	<b>Level 2</b>
<b>04 DB_perf-spiccato</b> Spiccato Monophonic 2 velocity layers: 0–88 mp; 89–127 f	<b>Samples: 858</b>	<b>RAM: 53 MB</b>	<b>Level 2</b>

**11 PERF INTERVAL FAST****Range: B0–C4****Level 1:** Legato**Level 2:** Marcato, spiccato, and harsh**01 DB\_perf-legato\_fa****Samples: 986 RAM: 61 MB Level 1**

Legato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**02 DB\_perf-marcato\_fa****Samples: 1082 RAM: 67 MB Level 2**

Marcato, fast

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

Release samples

**03 DB\_perf-spiccato\_fa****Samples: 1028 RAM: 64 MB Level 2**

Spiccato, fast

Monophonic

2 velocity layers: 0–88 mp; 89–127 f

**04 DB\_perf-harsh\_fa****Samples: 564 RAM: 35 MB Level 2**

Harsh, fast

Monophonic

2 velocity layers: 0–88 mf; 89–127 ff

**12 PERF TRILL****Range: B0–G4****Level 2:** Trills, legato, minor to major 2nd**01 DB\_perf-trill\_leg****Samples: 1584 RAM: 99 MB Level 2**

Trills, legato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**13 PERF REPETITION****Range: B0–G4****Level 1:** Legato slow, staccato, spiccato**Level 2:** Legato fast, portato, harsh; dynamics for all articulations**01 DB\_perf-rep\_leg-sl****Samples: 285 RAM: 17 MB Level 1**

Legato, slow

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

**02 DB\_perf-rep\_leg-fa****Samples: 285 RAM: 17 MB Level 2**

Legato, fast

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

<b>03 DB_perf-rep_por</b> Portato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f	<b>Samples: 513</b>	<b>RAM: 32 MB</b>	<b>Level 2</b>
<b>04 DB_perf-rep_sta</b> Staccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f	<b>Samples: 513</b>	<b>RAM: 32 MB</b>	<b>Level 1</b>
<b>05 DB_perf-rep_spi</b> Spiccato 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f	<b>Samples: 513</b>	<b>RAM: 32 MB</b>	<b>Level 1</b>
<b>06 DB_perf-rep_harsh</b> Harsh 2 velocity layers: 0–88 mf; 89–127 ff	<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 2</b>
<b>21 DB_perf-rep_dyn5_leg-sl</b> Legato dynamics, slow, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 190</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>22 DB_perf-rep_dyn5_leg-fa</b> Legato dynamics, fast, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 190</b>	<b>RAM: 11 MB</b>	<b>Level 2</b>
<b>23 DB_perf-rep_dyn9_por</b> Portato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 2</b>
<b>24 DB_perf-rep_dyn9_sta</b> Staccato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 2</b>
<b>25 DB_perf-rep_dyn9_spi</b> Spiccato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 2</b>
<b>26 DB_perf-rep_dyn9_harsh</b> Harsh dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 2</b>

**14 GLISSANDI****Range: B0–C4****Level 2:** Performance glissandos, up and down; medium and fast octave glissandos, up and down

<b>01 DB_perf-glissando</b> Phrase performances: Glissando	<b>Samples: 379</b>	<b>RAM: 23 MB</b>	<b>Level 2</b>
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Monophonic  
1 velocity layer

<b>02 DB_octav-gliss_me</b> Phrases: Glissando, medium 1 velocity layer AB switch: up/down	<b>Samples: 18</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>03 DB_octav-gliss_fa</b> Phrases: Glissando, fast 1 velocity layer AB switch: up/down	<b>Samples: 18</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>

## 98 RESOURCES

**Level 2:** Isolated dynamics repetitions, single layer long notes, interval performance speed variations.

<b>01 Perf Rep dyn</b>	<b>Range: B0–G4</b>		
<b>01_DB_rep_cre5_leg-sl-1 (2/3/4/5)</b> Extracted repetitions: Legato slow, crescendo, 1st to 5th note 1 velocity layer	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>01_DB_rep_dim5_leg-sl-1 (2/3/4/5)</b> Extracted repetitions: Legato slow, diminuendo, 1st to 5th note 1 velocity layer	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>02_DB_rep_cre5_leg-fa-1 (2/3/4/5)</b> Extracted repetitions: Legato fast, crescendo, 1st to 5th note 1 velocity layer	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>02_DB_rep_dim5_leg-fa-1 (2/3/4/5)</b> Extracted repetitions: Legato fast, diminuendo, 1st to 5th note 1 velocity layer	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>03_DB_rep_cre9_por-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Portato, crescendo, 1st to 9th note 1 velocity layer	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>03_DB_rep_dim9_por-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Portato, diminuendo, 1st to 9th note 1 velocity layer	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>04_DB_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Staccato, crescendo, 1st to 9th note 1 velocity layer	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>04_DB_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Staccato, diminuendo, 1st to 9th note 1 velocity layer	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>05_DB_rep_cre9_spi-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Spiccato, crescendo, 1st to 9th note	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>

1 velocity layer

**05\_DB\_rep\_dim9\_spi-1 (2/3/4/5/6/7/8/9)****Samples: 19****RAM: 1 MB****Level 2**

Extracted repetitions: Spiccato, diminuendo, 1st to 9th note

1 velocity layer

**06\_DB\_rep\_cre9\_harsh-1 (2/3/4/5/6/7/8/9)****Samples: 19****RAM: 1 MB****Level 2**

Extracted repetitions: Harsh, crescendo, 1st to 9th note

1 velocity layer

**06\_DB\_rep\_dim9\_harsh-1 (2/3/4/5/6/7/8/9)****Samples: 19****RAM: 1 MB****Level 2**

Extracted repetitions: Harsh, diminuendo, 1st to 9th note

1 velocity layer

**02 Long Notes - Single Layer****Range: B0–G4****01\_DB\_sus\_Vib-pp****Samples: 74****RAM: 4 MB****Level 2**

Sustained, vibrato, pp

1 velocity layer

Release samples

**02\_DB\_sus\_Vib-mp****Samples: 111****RAM: 6 MB****Level 2**

Sustained, vibrato, mp

1 velocity layer

Release samples

**03\_DB\_sus\_Vib-f****Samples: 148****RAM: 9 MB****Level 2**

Sustained, vibrato, f

1 velocity layer

Release samples

**04\_DB\_sus\_Vib-ff****Samples: 185****RAM: 11 MB****Level 2**

Sustained, vibrato, ff

1 velocity layer

Release samples

**03 Perf Speed variation****Range: B0–C4****01\_DB\_perf-legato\_me****Samples: 824****RAM: 51 MB****Level 2**

Interval performances: Legato, medium speed

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**03\_DB\_stac-spic****Samples: 136****RAM: 8 MB****Level 2**

Single notes: Staccato/spiccato

2 velocity layers: 0–88 pp; 89–127 f

**99 RELEASE TRIGGER**

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

# Matrices

## Matrix - LEVEL 1

### L1 DB Articulation Combi

Samples: 2819 RAM: 176 MB **Level 1**

Single note articulations: Normal, ponticello, artificial harmonics, glissandos, pizzicato

**Matrix switches:** Horizontal: Keyswitches, C6–A6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6
V1	stac	sus	fp	trem	trill half	pon.stac	pon.trem	harm.stac	med.gliss	pizz.
V2	dét. short	marc	sfz	trem auto	trill whole	pon.sus	pon.trem auto	harm.sus	fast gliss	snap pizz.

### L1 DB Perf-Legato Speed + porta

Samples: 1787 RAM: 111 MB **Level 1**

Interval performances: Legato slow and fast, portamento

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
V1	legato slow	legato fast
V2	portamento	legato fast

### L1 DB Perf-Repetitions Combi

Samples: 1311 RAM: 81 MB **Level 1**

Repetition performances: Slow legato, staccato, spiccato

**Matrix switches:** Vertical: Modwheel, 3 zones

	repetitions
V1	legato
V2	staccato
V3	spiccato

## Matrix - LEVEL 2 A - Advanced

### 01 DB Perf-Universal

Samples: 3512 RAM: 219 MB **Level 2**

Interval performances: Legato, marcato, spiccato; slow and fast

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones Vertical: Modwheel, 3 zones

	H1	H2	H3	H4
legato	slow	medium	medium	fast
marcato	slow	slow	slow	fast
spiccato	stac/spic	stac/spic	slow	fast

### 02 DB Perf-Legato - All

Samples: 1377 RAM: 86 MB **Level 2**

Interval performances: Legato, portamento

Monophonic

**Matrix switches:** Vertical: Modwheel, 2 zones

	H1
V1	legato
V2	portamento

**03 DB Perf-Trill Speed****Samples: 1713 RAM: 107 MB Level 2**

Multi interval performances: Legato and trills  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

**04 DB Perf-Trill Speed - Combi****Samples: 2356 RAM: 147 MB Level 2**

Multi interval performances: Legato, portamento, trills  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
V1	legato	trills
V2	portamento	trills

**05 DB Short+Long notes - All****Samples: 1849 RAM: 115 MB Level 2**

Single notes: Staccato, détaché short and long, sustained, vibrato variations

**Matrix switches:** Horizontal: Keyswitches, C6–D#6 Vertical: Modwheel, 5 zones

	C1	C#1	D1	D#1
V1	staccato	détaché short	détaché long	sustained vibrato
V2	%	%	%	no vibrato
V3	%	%	%	prog. vibrato
V4	%	%	%	marcato
V5	%	%	%	vib. down

**06 DB Perf-Harsh - Combi****Samples: 1378 RAM: 86 MB Level 2**

Sustained, vibrato variations, ponticello; all with harsh attack  
 Cell crossfade for vibrato/no vibrato sustain  
 Monophonic

**Matrix switches:** Horizontal: Keyswitches, C6–D#6

	C6	C#6	D6	D#6
V1	sus-vib./no vib.	sus-progr.vib.	ponticello	harsh

**Matrix - LEVEL 2 B - Standard****11 DB Perf-Legato Speed****Samples: 1144 RAM: 71 MB Level 2**

Interval performances: Legato slow and fast  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	medium	fast

**12 DB Perf-Marcato Speed****Samples: 1254 RAM: 78 MB Level 2**

Interval performances: Marcato slow and fast  
 Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
marcato	slow	fast



**13 DB Perf-Spiccato Speed****Samples: 1254 RAM: 78 MB****Level 2**

Interval performances: Staccato/spiccato, performance spiccato slow and fast

Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
spiccato	stac/spic	slow	fast

**14 DB Short notes - All****Samples: 962 RAM: 60 MB****Level 2**

Staccato, détaché short, détaché long

**Matrix switches:** Horizontal: Keyswitches, C6–D6

	C6	C#6	D6
short notes	staccato	détaché short	détaché long

**15 DB Long notes - All****Samples: 887 RAM: 55 MB****Level 2**

Sustained with vibrato, marcato, progressive, fading, and no vibrato

**Matrix switches:** Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6
sustained	vibrato	marcato	progr. vibrato	fading vibrato	no vibrato

**16 DB Dynamics - Small****Samples: 333 RAM: 20 MB****Level 2**

Strong dynamics: Crescendo/diminuendo 1.5, 3, 4 sec., fortissimo, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C6–D6 Vertical: Modwheel, 4 zones

	C6	C#6	D6
strong dyn. vib.	1.5 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

**17 DB Dynamics - All****Samples: 613 RAM: 38 MB****Level 2**

Dynamics: Crescendo/diminuendo strong with vibrato, medium without vibrato, cresc-dim 2 and 4 sec., fortissimo, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C6–D6 Vertical: Modwheel, 4 zones

	C6	C#6	D6
strong dyn. vib.	1.5sec.	3sec.	4sec.
med.dyn. no vib.	1.5sec.	3sec.	3sec.
special dyn.	pfp 2sec.	pfp 4sec.	pfp 4sec.
special dyn.	fp	sfz	sffz

**18 DB Tremolo - All****Samples: 333 RAM: 20 MB Level 2**

Tremolo: Sustained, sustained with attack automation

**Matrix switches:** Horizontal: Keyswitches, C6–C#6

	C6	C#6
tremolo	sustained	auto attack

**19 DB Trills - normal****Samples: 180 RAM: 11 MB Level 2**

Trills: normal and dynamics, half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C6–C#6 Vertical: Modwheel, 2 zones

	C6	C#6
half tone	normal	dynamics
whole tone	normal	dynamics

**20 DB Pizzicato + Legno - All****Samples: 515 RAM: 32 MB Level 2**

Pizzicato normal and snap/Col legno

**Matrix switches:** Horizontal: Keyswitches, C6–C#6 Vertical: Modwheel, 2 zones

	C1	C#1
V1	pizzicato normal	col legno
V2	pizz. snap	col legno

**21 DB Harmonics artificial - All****Samples: 165 RAM: 10 MB Level 2**

Artificial harmonics: Staccato, sustained, repetition performances

**Matrix switches:** Horizontal: Keyswitches, C6–D6

	C6	C#6	D6
harmonics artificial	staccato	sustained	perf. repetition

**22 DB Harmonics natural - All****Samples: 344 RAM: 21 MB Level 2**

Natural harmonics: Sustained, repetition performances, glissando

**Matrix switches:** Horizontal: Keyswitches, C6–D6

	C6	C#6	D6
harmonics natural	sustained	perf. repetition	glissando

**23 DB Ponticello - All****Samples: 1402 RAM: 87 MB Level 2**

Ponticello: Staccato, détaché, sustained, sforzato, sforzatissimo, tremolo, legato repetitions normal/dynamics

**Matrix switches:** Horizontal: Keyswitches, C6–E6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6
V1	staccato	sustained	sfz	tremolo	perf.rep legato
V2	détaché	sus. auto attack	sfz	trem. auto attack	perf.rep legato dyn.

**24 DB Ponticello XF - All****Samples: 3505 RAM: 219 MB Level 2**

Ponticello and normal: Staccato, détaché, sustained, sforzato, sforzatissimo, tremolo, legato repetitions normal and dynamics

Cell crossfade ponticello/normal

**Matrix switches:** Horizontal: Keyswitches, C6–E6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6
V1	staccato	sustained	sfz	tremolo	perf.rep legato
V2	détaché	sus. auto attack	sfz	trem. auto attack	perf.rep legato dyn.

**25 DB Tasto - All****Samples: 985 RAM: 61 MB Level 2**

Sul tasto: Staccato, détaché, sustained, sforzato, tremolo

**Matrix switches:** Horizontal: Keyswitches, C6–D#6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6
V1	staccato	sustained	sfz	tremolo	
V2	détaché	sus. auto attack	sfz	trem. auto attack	

**26 DB Tasto XF - All****Samples: 2576 RAM: 161 MB Level 2**

Sul tasto and normal: Staccato, détaché, sustained, sforzato, tremolo

Cell crossfade tasto/normal

**Matrix switches:** Horizontal: Keyswitches, C6–D#6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6
V1	staccato	sustained	sfz	tremolo
V2	détaché	sus. auto attack	sfz	trem. auto attack

**27 DB Glissando - All****Samples: 415 RAM: 25 MB Level 2**

Performance glissandos, medium and fast octave glissandos

Monophonic

**Matrix switches:** Vertical: Modwheel, 3 zones

	H1
V1	perf. glissando
V2	medium oct. gliss
V3	fast oct. gliss

**Matrix - LEVEL 2 C - Repetitions****31 DB Perf-Repetitions - Combi****Samples: 2166 RAM: 135 MB Level 2**

Repetition performances: Legato, portato, staccato, spiccato, harsh

**Matrix switches:** Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6
repetitions	legato	portato	staccato	spiccato	harsh

**32 DB Perf-Repetitions - Speed****Samples: 1824 RAM: 114 MB Level 2**

Repetition performances: Legato, portato, staccato, spiccato

Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones

	H1	H2	H3	H4
repetitions	legato	portato	staccato	spiccato

**Matrix - LEVEL 2 E - Keyswitch Vel****61 DB Legato slow - cre5****Samples: 95 RAM: 5 MB Level 2**

Legato notes 1 sec.: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6
velocity	1st	2nd	3rd	4th	5th

**62 DB Legato fast - cre5****Samples: 95****RAM: 5 MB****Level 2**

Fast legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6
velocity	1st	2nd	3rd	4th	5th

**63 DB Portato - cre9****Samples: 171****RAM: 10 MB****Level 2**

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**64 DB Staccato - cre9****Samples: 171****RAM: 10 MB****Level 2**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**65 DB Spiccato - cre9****Samples: 171****RAM: 10 MB****Level 2**

Spiccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**66 DB Harsh - cre9****Samples: 171****RAM: 10 MB****Level 2**

Harsh notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**67 DB Combi - cre5****Samples: 190****RAM: 11 MB****Level 2**

Slow/fast legato: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–E6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

**68 DB Combi - cre9****Samples: 684 RAM: 42 MB Level 2**

Portato, staccato, spiccato, harsh: Crescendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6 Vertical: Modwheel, 4 zones

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%
harsh	1st	%	%	%	%	%	%	%	%

**71 DB Legato slow - dim5****Samples: 95 RAM: 5 MB Level 2**

Legato notes 1 sec.: Diminuendo, keyswitch velocity  
 Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6
velocity	1st	2nd	3rd	4th	5th

**72 DB Legato fast - dim5****Samples: 95 RAM: 5 MB Level 2**

Fast legato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6
velocity	1st	2nd	3rd	4th	5th

**73 DB Portato - dim9****Samples: 171 RAM: 10 MB Level 2**

Portato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**74 DB Staccato - dim9****Samples: 171 RAM: 10 MB Level 2**

Staccato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**75 DB Spiccato - dim9****Samples: 171 RAM: 10 MB Level 2**

Spiccato notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**76 DB Harsh - dim9****Samples: 171 RAM: 10 MB Level 2**

Harsh notes: Diminuendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**77 DB Combi - dim5****Samples: 190 RAM: 11 MB Level 2**

Slow/fast legato: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–E6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

**78 DB Combi - dim9****Samples: 684 RAM: 42 MB Level 2**

Portato, staccato, spiccato, harsh: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6 Vertical: Modwheel, 4 zones

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%
harsh	1st	%	%	%	%	%	%	%	%

**Presets**

**DB VSL Preset Level 1****Samples: 5674 RAM: 354 MB Level 1**

L1 DB Perf-Legato Speed + porta

L1 DB Articulation Combi

L1 DB Perf-Repetitions Combi

**DB VSL Preset Level 2****Samples: 9598 RAM: 599 MB Level 2**

01 DB Perf-Universal

02 DB Perf-Legato - All

L1 DB Articulation Combi

31 DB Perf-Repetitions - Combi

68 DB Combi - cre9

06 DB Perf-Harsh - Combi

## Appendix – Solo Strings I

In the following, you will find notations and keyboard layout graphics for major and minor scale runs, as well as a list of playing ranges for the individual Patches.

### Scale runs - major

C major



C#/Db major



D major



D#/Eb major



E major



F major



F#/Gb major



G major



G#/Ab major



A major



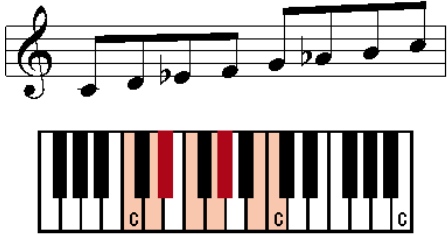
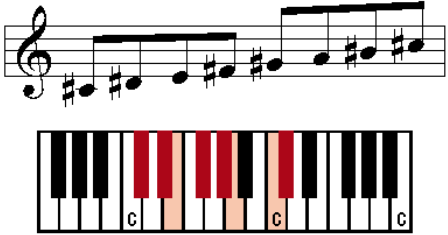
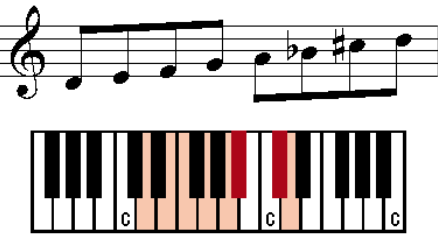
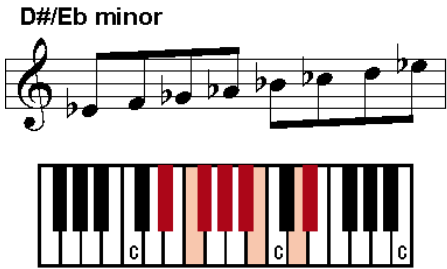
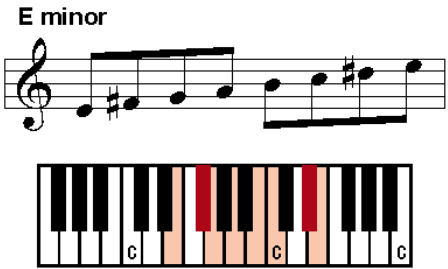
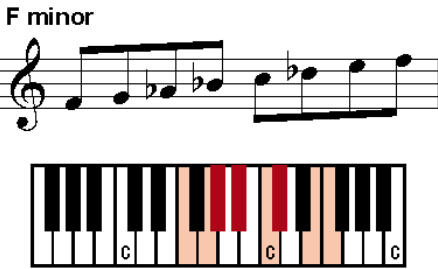
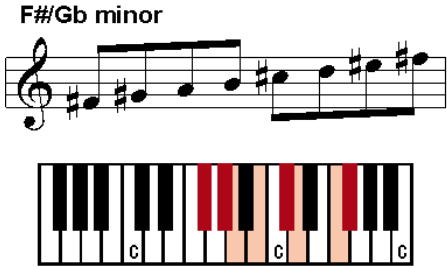
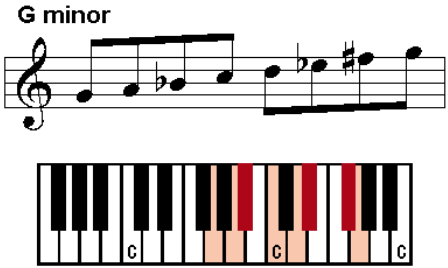
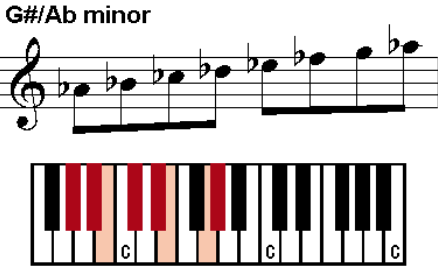
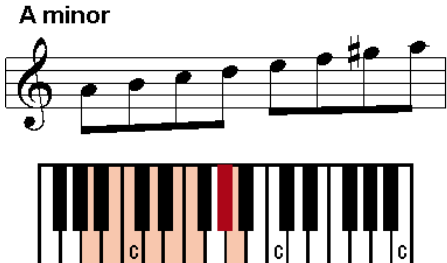
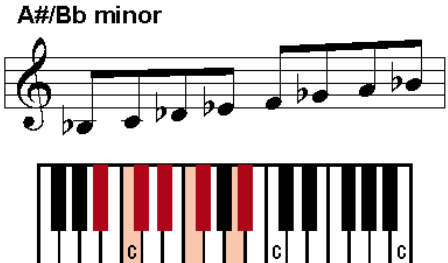
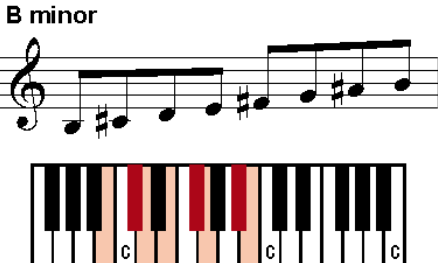
A#/Bb major



B major



## Scale runs - minor

<b>C minor</b> 	<b>C#/Db minor</b> 	<b>D minor</b> 
<b>D#/Eb minor</b> 	<b>E minor</b> 	<b>F minor</b> 
<b>F#/Gb minor</b> 	<b>G minor</b> 	<b>G#/Ab minor</b> 
<b>A minor</b> 	<b>A#/Bb minor</b> 	<b>B minor</b> 

## Violin solo scale ranges

### Legato major

	Play range
01 VI run-leg_C-ma	G3–A6
02 VI run-leg_C#-ma	G#3–A#6
03 VI run-leg_D-ma	G3–A6
04 VI run-leg_D#-ma	G#3–A#6
05 VI run-leg_E-ma	G#3–A6
06 VI run-leg_F-ma	G3–A#6
07 VI run-leg_F#-ma	G#3–G#6
08 VI run-leg_G-ma	G3–A6
09 VI run-leg_G#-ma	G3–G#6
10 VI run-leg_A-ma	G#3–A6
11 VI run-leg_A#-ma	G3–A6
12 VI run-leg_B-ma	G#3–A#6

### Legato minor

	Play range
01 VI run-leg_C-mi	G3–G#6
02 VI run-leg_C#-mi	G#3–A6
03 VI run-leg_D-mi	G3–A6
04 VI run-leg_D#-mi	G#3–A#6
05 VI run-leg_E-mi	G3–A6
06 VI run-leg_F-mi	G#3–A#6
07 VI run-leg_F#-mi	G#3–A6
08 VI run-leg_G-mi	G3–A#6
09 VI run-leg_G#-mi	G3–G#6
10 VI run-leg_A-mi	G#3–A6
11 VI run-leg_A#-mi	G3–A6
12 VI run-leg_B-mi	A#3–A#6



**Spiccato major**

01 VI run-spic\_C-ma  
 02 VI run-spic\_C#-ma  
 03 VI run-spic\_D-ma  
 04 VI run-spic\_D#-ma  
 05 VI run-spic\_E-ma  
 06 VI run-spic\_F-ma  
 07 VI run-spic\_F#-ma  
 08 VI run-spic\_G-ma  
 09 VI run-spic\_G#-ma  
 10 VI run-spic\_A-ma  
 11 VI run-spic\_A#-ma  
 12 VI run-spic\_B-ma

**Play range**

G3–A6  
 G#3–A#6  
 G3–A6  
 G#3–A#6  
 G3–A6  
 G3–A#6  
 G#3–G#6  
 G3–A6  
 G3–G#6  
 G#3–A6  
 G3–A6  
 G#3–A#6

**Spiccato minor**

01 VI\_run-spic\_C-mi  
 02 VI\_run-spic\_C#-mi  
 03 VI\_run-spic\_D-mi  
 04 VI\_run-spic\_D#-mi  
 05 VI\_run-spic\_E-mi  
 06 VI\_run-spic\_F-mi  
 07 VI\_run-spic\_F#-mi  
 08 VI\_run-spic\_G-mi  
 09 VI\_run-spic\_G#-mi  
 10 VI\_run-spic\_A-mi  
 11 VI\_run-spic\_A#-mi  
 12 VI\_run-spic\_B-mi

**Play range**

G3–G#6  
 G#3–A6  
 G3–A6  
 G#3–A#6  
 G3–A6  
 G#3–A#6  
 G#3–A6  
 G3–A#6  
 G3–G#6  
 G#3–A6  
 G3–A6  
 A#3–A#6

# Solo Strings II

# Articulations

Instrument/group	Level 1 (Standard) content	Level 2 (Extended) content
<b>01 Violin solo</b>		
14 FAST REPETITION		Fast repetitions, long, 16ths at 150 to 190 BPM
31 Sordino SHORT + LONG NOTES	Staccato Short détaché Sustained with vibrato	Long détaché Sustained with progressive and without vibrato
32 Sordino DYNAMICS	Fortepiano and sforzato with vibrato	Medium dynamics, 2, 3, 4 sec. Strong dynamics, 2, 3, 4 sec. Crescendo-diminuendo, 2, 4, 6 sec. Sforzatissimo All patches with vibrato
33 Sordino TREMOLO	Tremolo sustained Normal and with attack automation	Tremolo sustained, optimized attack for legato
34 Sordino PIZZ	Pizzicato	
35 Sordino HARMONICS	Artificial harmonics Staccato and sustained	
40 Sordino PERF INTERVAL	Legato, with vibrato Portamento	Legato, with progressive and without vibrato Marcato Spiccato
41 Sordino PERF INTERVAL FAST	Legato fast	
42 Sordino PERF TRILL		Trills, minor 2nd to 4th
43 Sordino PERF REPETITION	Legato Staccato Spiccato	Portato Crescendo repetitions, all articulations
44 Sordino FAST REPETITION		Fast repetitions, 16ths at 150 to 190 BPM
<b>02 Viola solo</b>		
14 FAST REPETITION		Fast repetitions, long, 16ths at 150 to 190 BPM
31 Sordino SHORT + LONG NOTES	Staccato Short détaché Sustained with vibrato	Long détaché Sustained with progressive and without vibrato
32 Sordino DYNAMICS	Fortepiano and sforzato with vibrato	Medium dynamics, 2, 3, 4 sec. Strong dynamics, 2, 3, 4 sec. Crescendo-diminuendo, 2, 4, 6 sec. Sforzatissimo All patches with vibrato
33 Sordino TREMOLO	Tremolo sustained Normal and with attack automation	Tremolo sustained, optimized attack for legato
34 Sordino PIZZ	Pizzicato	
35 Sordino HARMONICS	Artificial harmonics Staccato and sustained	
40 Sordino PERF INTERVAL	Legato, with vibrato Portamento	Legato, with progressive and without vibrato Marcato Spiccato
41 Sordino PERF INTERVAL FAST	Legato fast	
42 Sordino PERF TRILL		Trills, minor 2nd to 4th
43 Sordino PERF REPETITION	Legato Staccato Spiccato	Portato Crescendo repetitions, all articulations
44 Sordino FAST REPETITION		Fast repetitions, 16ths at 150 to 190 BPM

Instrument/group	Level 1 (Standard) content	Level 2 (Extended) content
<b>03 Cello solo</b>		
<b>14 FAST REPETITION</b>		Fast repetitions, long, 16ths at 150 to 190 BPM
<b>31 Sordino SHORT + LONG NOTES</b>	Staccato Short détaché Sustained with vibrato	Long détaché Sustained with progressive and without vibrato
<b>32 Sordino DYNAMICS</b>	Fortepiano and sforzato with vibrato	Medium dynamics, 2, 3, 4 sec. Strong dynamics, 2, 3, 4 sec. Crescendo-diminuendo, 2, 4, 6 sec. Sforzatissimo All patches with vibrato
<b>33 Sordino TREMOLO</b>	Tremolo sustained Normal and with attack automation	Tremolo sustained, optimized attack for legato
<b>34 Sordino PIZZ</b>	Pizzicato	
<b>35 Sordino HARMONICS</b>	Artificial harmonics Staccato and sustained	
<b>40 Sordino PERF INTERVAL</b>	Legato, with vibrato Portamento	Legato, with progressive and without vibrato Marcato Spiccato
<b>41 Sordino PERF INTERVAL FAST</b>	Legato fast	
<b>42 Sordino PERF TRILL</b>		Trills, minor 2nd to 4th
<b>43 Sordino PERF REPETITION</b>	Legato Staccato Spiccato	Portato Crescendo repetitions, all articulations
<b>44 Sordino FAST REPETITION</b>		Fast repetitions, 16ths at 150 to 190 BPM
<b>04 Bass solo</b>		
<b>14 FAST REPETITION</b>		Fast repetitions, long, 16ths at 150 to 190 BPM
<b>31 Sordino SHORT + LONG NOTES</b>	Staccato Short détaché Sustained with vibrato	Long détaché Sustained with progressive and without vibrato
<b>32 Sordino DYNAMICS</b>	Fortepiano and sforzato with vibrato	Medium dynamics, 2, 3, 4 sec. Strong dynamics, 2, 3, 4 sec. Crescendo-diminuendo, 2, 4, 6 sec. Sforzatissimo All patches with vibrato
<b>33 Sordino TREMOLO</b>	Tremolo sustained Normal and with attack automation	Tremolo sustained, optimized attack for legato
<b>34 Sordino PIZZ</b>	Pizzicato	
<b>35 Sordino HARMONICS</b>	Artificial harmonics Staccato and sustained	
<b>40 Sordino PERF INTERVAL</b>	Legato, with vibrato Portamento	Legato, with progressive and without vibrato Marcato Spiccato
<b>41 Sordino PERF INTERVAL FAST</b>	Legato fast	
<b>42 Sordino PERF TRILL</b>		Trills, minor and major 2nd
<b>43 Sordino PERF REPETITION</b>	Legato Staccato Spiccato	Portato Crescendo repetitions, all articulations
<b>44 Sordino FAST REPETITION</b>		Fast repetitions, 16ths at 150 to 190 BPM

# 01 Violin solo

## Patches

### 14 FAST REPETITION

Range: G3–A7



**Level 2:** Fast repetitions, long, 16ths at 150 to 190 BPM

### 06 VI\_fast-rep\_long\_150 (160/170/180/190)

Samples: 100

RAM: 6 MB

**Level 2**

Fast repetitions, long, 16ths at 150 to 190 BPM

2 velocity layers: 0–88 p; 89–127 f

Release samples

### 31 Sordino SHORT + LONG NOTES

Range: G3–A#7



**Level 1:** Staccato  
Short détaché  
Sustained with vibrato

**Level 2:** Long détaché  
Sustained with progressive and without vibrato

### 01 VI\_mu\_staccato

Samples: 312

RAM: 19 MB

**Level 1**

Staccato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 02 VI\_mu\_detache\_short

Samples: 312

RAM: 19 MB

**Level 1**

Short détaché

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 03 VI\_mu\_detache\_long

Samples: 312

RAM: 19 MB

**Level 2**

Long détaché

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 10 VI\_mu\_sus\_Vib

Range: G3–A7

Samples: 416

RAM: 26 MB

**Level 1**

Sustained, with vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

### 11 VI\_mu\_sus\_Vib-progr

Range: G3–A7

Samples: 404

RAM: 25 MB

**Level 2**

Sustained, with progressive vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

**12 VI\_mu\_sus\_noVib****Range: G3–A7****Samples: 416****RAM: 26 MB****Level 2**

Sustained, without vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

**32 Sordino DYNAMICS****Range: G3–A7****Level 1:** Fortepiano and sforzato with vibrato**Level 2:** Medium dynamics, 2, 3, 4 sec.

Strong dynamics, 2, 3, 4 sec.

Crescendo-diminuendo, 2, 4, 6 sec.

Sforzatissimo

All patches with vibrato

**01 VI\_mu\_dyn-me\_Vib\_2s****Samples: 100****RAM: 6 MB****Level 2**

Medium crescendo and diminuendo, with vibrato, 2 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

**02 VI\_mu\_dyn-me\_Vib\_3s****Samples: 100****RAM: 6 MB****Level 2**

Medium crescendo and diminuendo, with vibrato, 3 sec.

**03 VI\_mu\_dyn-me\_Vib\_4s****Samples: 100****RAM: 6 MB****Level 2**

Medium crescendo and diminuendo, with vibrato, 4 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

**11 VI\_mu\_dyn-str\_Vib\_2s****Samples: 50****RAM: 3 MB****Level 2**

Strong crescendo and diminuendo, with vibrato, 2 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**12 VI\_mu\_dyn-str\_Vib\_3s****Samples: 50****RAM: 3 MB****Level 2**

Strong crescendo and diminuendo, with vibrato, 3 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**13 VI\_mu\_dyn-str\_Vib\_4s****Samples: 50****RAM: 3 MB****Level 2**

Strong crescendo and diminuendo, with vibrato, 4 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**21 VI\_mu\_pfp\_Vib\_2s****Samples: 50****RAM: 3 MB****Level 2**


Crescendo-diminuendo, with vibrato, 2 sec.

2 velocity layers: 0–88 p; 89–127 f

**22 VI\_mu\_pfp\_Vib\_4s****Samples: 50****RAM: 3 MB****Level 2**

Crescendo-diminuendo, with vibrato, 4 sec.

2 velocity layers: 0–88 p; 89–127 f

<b>23 VI_mu_pfp_Vib_6s</b>	<b>Samples: 50</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
Crescendo-diminuendo, with vibrato, 6 sec. 2 velocity layers: 0–88 p; 89–127 f			
<b>31 VI_mu_fp_Vib</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
Fortepiano, with vibrato 1 velocity layer 2 Alternations			
<b>32 VI_mu_sfz_Vib</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
Sforzato, with vibrato			
<b>33 VI_mu_sffz_Vib</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
Sforzatissimo, with vibrato 1 velocity layer 2 Alternations			
<b>33 Sordino TREMOLO</b>			
<b>Range: G3–A7</b>			
<b>Level 1:</b> Tremolo sustained Normal and with attack automation			
<b>Level 2:</b> Tremolo sustained, optimized attack for legato			
<b>01 VI_mu_trem_sus</b>	<b>Samples: 150</b>	<b>RAM: 9 MB</b>	<b>Level 1</b>
Tremolo, sustained 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples			
<b>02 VI_mu_trem_sus_fA</b>	<b>Samples: 150</b>	<b>RAM: 9 MB</b>	<b>Level 2</b>
Tremolo, sustained Optimized attack for legato Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples			
<b>03 VI_mu_trem_sus_fA_auto</b>	<b>Samples: 150</b>	<b>RAM: 9 MB</b>	<b>Level 1</b>
Tremolo, sustained Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples			

**34 Sordino PIZZ****Range: G3–A#7****Level 1:** Pizzicato**01 VI\_mu\_pizz****Samples: 204 RAM: 12 MB Level 1**

Pizzicato

2 velocity layers: 0–88 p; 89–127 f

2 Alternations

**35 Sordino HARMONICS****Range: G4–D7****Level 1:** Artificial harmonics  
Staccato and sustained**01 VI\_mu\_harm-art\_stac****Samples: 128 RAM: 8 MB Level 1**

Artificial harmonics, staccato

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

**02 VI\_mu\_harm-art\_sus****Samples: 96 RAM: 6 MB Level 1**

Artificial harmonics, sustained

2 velocity layers: 0–88 p; 89–127 f

Release samples

2 Alternations

**40 Sordino PERF INTERVAL****Range: G3–D7****Level 1:** Legato, with vibrato  
Portamento**Level 2:** Legato, with progressive and without vibrato  
Marcato  
Spiccato**01 VI\_mu\_perf-legato\_Vib****Samples: 1220 RAM: 76 MB Level 1**

Legato, with vibrato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**02 VI\_mu\_perf-legato\_Vib-prog****Samples: 1220 RAM: 76 MB Level 2**

Legato, with progressive vibrato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples



**03 VI\_mu\_perf-legato\_noVib****Samples: 1220 RAM: 76 MB****Level 2**

Legato, without vibrato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**04 VI\_mu\_perf-portamento****Range: G3–C7****Samples: 1290 RAM: 80 MB****Level 1**

Portamento

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: sus normal/sul. If set to B, this AB switch provides repetition notes played on the same string as the target note of the preceding interval. For larger interval steps, selecting B after upward movements and A after downward movements gives good results; however, the best way to use this AB switch is try out what sounds best from case to case.

**05 VI\_mu\_perf-marcato****Range: G3–C7****Samples: 1028 RAM: 64 MB****Level 2**

Marcato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**06 VI\_mu\_perf-spiccato****Range: G3–C7****Samples: 609 RAM: 38 MB****Level 2**

Spiccato

Monophonic

1 velocity layer

**41 Sordino PERF INTERVAL FAST****Range: G3–D7****Level 1:** Legato fast**01 VI\_mu\_perf-legato\_fa****Samples: 1252 RAM: 78 MB****Level 1**

Legato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**42 Sordino PERF TRILL****Range: G3–D7****Level 2:** Trills, minor 2nd to 4th**01 VI\_mu\_perf-trill****Samples: 3332 RAM: 208 MB****Level 2**

Performance trills, minor 2nd to 4th

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**43 Sordino PERF REPETITION****Range: G3–A7**

- Level 1:** Legato  
Staccato  
Spiccato
- Level 2:** Portato  
Crescendo repetitions, all articulations

<b>01 VI_mu_perf-rep_leg</b> Legato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 260</b>	<b>RAM: 16 MB</b>	<b>Level 1</b>
<b>02 VI_mu_perf-rep_por</b> Portato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 450</b>	<b>RAM: 28 MB</b>	<b>Level 2</b>
<b>03 VI_mu_perf-rep_sta</b> Staccato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 450</b>	<b>RAM: 28 MB</b>	<b>Level 1</b>
<b>04 VI_mu_perf-rep_spi</b> Spiccato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 450</b>	<b>RAM: 28 MB</b>	<b>Level 1</b>
<b>21 VI_mu_perf-rep_cre5_leg</b> Legato crescendo, 5 repetitions 1 velocity layer	<b>Samples: 130</b>	<b>RAM: 8 MB</b>	<b>Level 2</b>
<b>22 VI_mu_perf-rep_cre9_por</b> Portato crescendo, 9 repetitions 1 velocity layer	<b>Samples: 225</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>23 VI_mu_perf-rep_cre9_sta</b> Staccato crescendo, 9 repetitions 1 velocity layer	<b>Samples: 225</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>24 VI_mu_perf-rep_cre9_spi</b> Spiccato crescendo, 9 repetitions 1 velocity layer	<b>Samples: 225</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>

**44 Sordino FAST REPETITION****Range: G3–A7**

- Level 2:** Fast repetitions, 16ths at 150 to 190 BPM

<b>01 VI_mu_fast-rep_150 (160/170/180/190)</b> Staccato, 16 repetitions 16ths at 150 to 190 BPM 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Samples: 100</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
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## 98 RESOURCES

### 01 Perf Rep dyn sordino Range: G3–A7

**Level 2:** Isolated dynamics repetitions  
Legato, portato, staccato, spiccato

#### 01 VI\_mu\_rep\_cre5\_leg-1 (2/3/4/5)

Samples: 26

RAM: 1 MB

Level 2

Extracted repetitions: Legato, crescendo, 1st to 5th repetition  
1 velocity layer

#### 02 VI\_mu\_rep\_cre9\_por-1 (2/3/4/5/6/7/8/9)

Samples: 25

RAM: 1 MB

Level 2

Extracted repetitions: Portato, crescendo, 1st to 9th repetition  
1 velocity layer

#### 03 VI\_mu\_rep\_cre9\_sta-1 (2/3/4/5/6/7/8/9)

Samples: 25

RAM: 1 MB

Level 2

Extracted repetitions: Staccato, crescendo, 1st to 9th repetition  
1 velocity layer

#### 04 VI\_mu\_rep\_cre9\_spi-1 (2/3/4/5/6/7/8/9)

Samples: 25

RAM: 1 MB

Level 2

Extracted repetitions: Spiccato, crescendo, 1st to 9th repetition  
1 velocity layer

## 99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

## Matrices

### Matrix - LEVEL 1 mu

#### L1 VI\_mu Articulation Combi

Samples: 1722 RAM: 107 MB **Level 1**

Single notes: Staccato, short détaché, sustained with vibrato, fortetpiano, sforzato, tremolo sustained, harmonics staccato and sustained, pizzicato

**Matrix switches:** Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	staccato	sustained vib.	fortetpiano	tremolo	harmonics staccato	pizzicato
V2	détaché short	sustained vib.	sforzato	tremolo, auto attack	harmonics sustained	pizzicato

#### L1 VI\_mu Perf-Legato Speed + porta

Samples: 2558 RAM: 159 MB **Level 1**

Interval performances: Legato normal and fast, portamento  
Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
V1	legato	legato, fast
V2	portamento	legato, fast

#### L1 VI\_mu Perf-Repetitions Combi

Samples: 1160 RAM: 72 MB **Level 1**

Repetition performances: Legato, staccato, spiccato

**Matrix switches:** Vertical: Modwheel, 3 zones

	H1
V1	legato
V2	staccato
V3	spiccato

### Matrix - LEVEL 2 F - mu Advanced

#### 01 VI\_mu Perf-Universal

Samples: 3169 RAM: 198 MB **Level 2**

Interval performances: Legato normal and fast, marcato, spiccato  
Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

	H1	H2
V1	legato	legato, fast
V2	marcato	marcato
V3	spiccato	spiccato

**02 VI\_mu Perf-Legato - All****Samples: 2682 RAM: 167 MB Level 2**

Interval performances: Legato with normal, progressive, and without vibrato; portamento

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
V1	legato, vibrato	legato, prog. vib.	legato, no vib.
V2	portamento	portamento	portamento

**03 VI\_mu Perf-Trill Speed****Samples: 3716 RAM: 232 MB Level 2**

Interval performances: legato with vibrato, and trills

Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
V1	legato, vib.	trills

**04 VI\_mu Articulation Combi large****Samples: 4938 RAM: 308 MB Level 2**

Staccato, short and long détaché

Sustained with normal, progressive, and without vibrato

Fortepiano, sforzato, sforzatissimo

Medium dynamics, 2, 3, and 4 sec.

Tremolo sustained

Harmonics staccato and sustained

Performances, legato, staccato, spiccato, normal and crescendo

Fast repetitions, 150, 170, 190 BPM

Pizzicato

**Matrix switches:** Horizontal: Keyswitches, C1–A1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	staccato	sustained vib.	fortepiano	medium dyn. 2 sec.	tremolo	harmonics staccato	perf.rep. legato	perf.rep. legato cres.	fast rep. 150 BPM	pizzicato
V2	détaché short	sustained prog. vib.	sforzato	medium dyn. 3 sec.	tremolo, auto attack	harmonics sustained	perf.rep. staccato	perf.rep. staccato cres.	fast rep. 170 BPM	pizzicato
V3	détaché long	sustained no vib.	sforzatissimo	medium dyn. 4 sec.	tremolo, staccato attack	harmonics sus., stacc. attack	perf.rep. spiccato	perf.rep. spiccato cres.	fast rep. 190 BPM	pizzicato

**05 VI\_mu Dynamics****Samples: 756 RAM: 47 MB Level 2**

Dynamics

Medium and strong crescendo and diminuendo, 2, 3, and 4 sec.

Crescendo-diminuendo, 2, 4, and 6 sec.

Fortepiano, sforzato, sforzatissimo

AB switch: crescendo/diminuendo

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
dyn.strong	2 sec.	3 sec.	4 sec.
cres-dim	2 sec.	4 sec.	6 sec.
sfz	fp	sfz	sffz

**Matrix - LEVEL 2 G - mu Repetitions****11 VI\_mu Perf-Repetitions - Combi****Samples: 2415 RAM: 150 MB Level 2**

Repetition performances

Legato, portato, staccato, and spiccato

Normal and crescendo

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
normal	legato	portato	staccato	spiccato
crescendo	legato	portato	staccato	spiccato

**12 VI\_mu Perf-Repetitions - Speed****Samples: 1610 RAM: 100 MB Level 2**

Repetition performances

Legato, portato, staccato, and spiccato

Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato	portato	staccato	spiccato

**13 VI\_mu Fast-Repetitions****Samples: 300 RAM: 18 MB Level 2**

Fast repetitions

Staccato, 16ths at 150 to 190 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

**Matrix - LEVEL 2 H - mu Keyswitch Vel****21 VI\_mu Legato - cre5****Samples: 130 RAM: 8 MB Level 2**

Legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**22 VI\_mu Portato - cre9****Samples: 225 RAM: 14 MB Level 2**

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**23 VI\_mu Staccato - cre9****Samples: 225 RAM: 14 MB Level 2**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**24 VI\_mu Spiccato - cre9****Samples: 225 RAM: 14 MB Level 2**

Spiccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**25 VI\_mu Combi - cre9****Samples: 675 RAM: 42 MB Level 2**

Portato, staccato, spiccato: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%

**Presets****VI\_mu VSL Preset Level 1****Samples: 5060 RAM: 316 MB Level 1**

L1 VI\_mu Perf-Legato Speed + porta

L1 VI\_mu Articulation Combi

L1 VI\_mu Perf-Repetitions Combi

Preset keyswitches: C2–D2

**VI\_mu VSL Preset Level 2****Samples: 9135 RAM: 570 MB Level 2**

01 VI\_mu Perf-Universal

02 VI\_mu Perf-Legato - All

04 VI\_mu Articulation Combi large

11 VI\_mu Perf-Repetitions - Combi

25 VI\_mu Combi - cre9

Preset keyswitches: C2–E2

# 02 Viola solo

## Patches

### 14 FAST REPETITION

Range: C3–D6



**Level 2:** Fast repetitions, long, 16ths at 150 to 190 BPM

### 06 VA\_fast-rep\_long\_150 (160/170/180/190)

Samples: 76

RAM: 4 MB

Level 2

Fast repetitions, long, 16ths at 150 to 190 BPM

2 velocity layers: 0–88 p; 89–127 f

Release samples

### 31 Sordino SHORT + LONG NOTES

Range: C3–G#6



**Level 1:** Staccato  
Short détaché  
Sustained with vibrato

**Level 2:** Long détaché  
Sustained with progressive and without vibrato

### 01 VA\_mu\_staccato

Samples: 276

RAM: 17 MB

Level 1

Staccato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 02 VA\_mu\_detache\_short

Samples: 276

RAM: 17 MB

Level 1

Short détaché

### 03 VA\_mu\_detache\_long

Samples: 276

RAM: 17 MB

Level 2

Long détaché

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 10 VA\_mu\_sus\_Vib

Samples: 368

RAM: 23 MB

Level 1

Sustained, with vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

### 11 VA\_mu\_sus\_Vib-progr

Samples: 356

RAM: 22 MB

Level 2

Sustained, with progressive vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples



**12 VC\_mu\_sus\_noVib****Samples: 368   RAM: 23 MB   Level 2**

Sustained, without vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

**32 Sordino DYNAMICS****Range: C3–G#6****Level 1:** Fortepiano and sforzato with vibrato**Level 2:** Medium dynamics, 2, 3, 4 sec.

Strong dynamics, 2, 3, 4 sec.

Crescendo-diminuendo, 2, 4, 6 sec.

Sforzatissimo

All patches with vibrato

**01 VA\_mu\_dyn-me\_Vib\_2s****Samples: 92   RAM: 5 MB   Level 2**

Medium crescendo and diminuendo, with vibrato, 2 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

**02 VA\_mu\_dyn-me\_Vib\_3s****Samples: 88   RAM: 5 MB   Level 2**

Medium crescendo and diminuendo, with vibrato, 3 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

**03 VA\_mu\_dyn-me\_Vib\_4s****Samples: 88   RAM: 5 MB   Level 2**

Medium crescendo and diminuendo, with vibrato, 4 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

**11 VA\_mu\_dyn-str\_Vib\_2s****Samples: 44   RAM: 2 MB   Level 2**

Strong crescendo and diminuendo, with vibrato, 2 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**12 VA\_mu\_dyn-str\_Vib\_3s****Samples: 44   RAM: 2 MB   Level 2**

Strong crescendo and diminuendo, with vibrato, 3 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**13 VA\_mu\_dyn-str\_Vib\_4s****Samples: 44   RAM: 2 MB   Level 2**

Strong crescendo and diminuendo, with vibrato, 4 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**21 VA\_mu\_pfp\_Vib\_2s****Samples: 44   RAM: 2 MB   Level 2**

Crescendo-diminuendo, with vibrato, 2 sec.

2 velocity layers: 0–88 p; 89–127 f

<b>22 VA_mu_pfp_Vib_4s</b>	<b>Samples: 44</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
Crescendo-diminuendo, with vibrato, 4 sec. 2 velocity layers: 0–88 p; 89–127 f			
<b>23 VA_mu_pfp_Vib_6s</b>	<b>Samples: 44</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
Crescendo-diminuendo, with vibrato, 6 sec. 2 velocity layers: 0–88 p; 89–127 f			
<b>31 VA_mu_fp_Vib</b>	<b>Samples: 46</b>	<b>RAM: 2 MB</b>	<b>Level 1</b>
Fortepiano, with vibrato 1 velocity layer 2 Alternations			
<b>32 VA_mu_sfz_Vib</b>	<b>Samples: 46</b>	<b>RAM: 2 MB</b>	<b>Level 1</b>
Sforzato, with vibrato 1 velocity layer 2 Alternations			
<b>33 VA_mu_sffz_Vib</b>	<b>Samples: 46</b>	<b>RAM: 2 MB</b>	<b>Level 2</b>
Sforzatissimo, with vibrato 1 velocity layer 2 Alternations			

**33 Sordino TREMOLO****Range: C3–G#6**

- Level 1:** Tremolo sustained  
Normal and with attack automation
- Level 2:** Tremolo sustained, optimized attack for legato

<b>01 VA_mu_trem_sus</b>	<b>Samples: 132</b>	<b>RAM: 8 MB</b>	<b>Level 1</b>
Tremolo, sustained 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples			
<b>02 VA_mu_trem_sus_fA</b>	<b>Samples: 132</b>	<b>RAM: 8 MB</b>	<b>Level 2</b>
Tremolo, sustained Optimized attack for legato Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples			
<b>03 VA_mu_trem_sus_fA_auto</b>	<b>Samples: 132</b>	<b>RAM: 8 MB</b>	<b>Level 1</b>
Tremolo, sustained Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples			

**34 Sordino PIZZ****Range: C3–G#6****Level 1:** Pizzicato**01 VA\_mu\_pizz****Samples: 176****RAM: 11 MB****Level 1**

Pizzicato

2 velocity layers: 0–88 p; 89–127 f

2 Alternations

**35 Sordino HARMONICS****Range: C4–A6****Level 1:** Artificial harmonics  
Staccato and sustained**01 VA\_mu\_harm-art\_stac****Samples: 136****RAM: 8 MB****Level 1**

Artificial harmonics, staccato

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

**02 VA\_mu\_harm-art\_sus****Samples: 102****RAM: 6 MB****Level 1**

Artificial harmonics, sustained

**40 Sordino PERF INTERVAL****Range: C3–D6****Level 1:** Legato, with vibrato  
Portamento**Level 2:** Legato, with progressive and without vibrato  
Marcato  
Spiccato**01 VA\_mu\_perf-legato\_Vib****Samples: 1088****RAM: 68 MB****Level 1**

Legato, with vibrato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**02 VA\_mu\_perf-legato\_Vib-prog****Samples: 1088****RAM: 68 MB****Level 2**

Legato, with progressive vibrato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**03 VA\_mu\_perf-legato\_noVib****Samples: 1088****RAM: 68 MB****Level 2**

Legato, without vibrato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**04 VA\_mu\_perf-portamento****Samples: 1162 RAM: 72 MB****Level 1**

Portamento

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: sus normal/sul. If set to B, this AB switch provides repetition notes played on the same string as the target note of the preceding interval. For larger interval steps, selecting B after upward movements and A after downward movements gives good results; however, the best way to use this AB switch is try out what sounds best from case to case.

**05 VA\_mu\_perf-marcato****Samples: 912 RAM: 57 MB****Level 2**

Marcato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**06 VA\_mu\_perf-spiccato****Samples: 552 RAM: 34 MB****Level 2**

Spiccato

Monophonic

1 velocity layer

**41 Sordino PERF INTERVAL FAST****Range: C3–D6****Level 1:** Legato fast**01 VA\_mu\_perf-legato\_fa****Samples: 1108 RAM: 69 MB****Level 1**

Legato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**42 Sordino PERF TRILL****Range: C3–D6****Level 2:** Trills, minor 2nd to 4th**01 VA\_mu\_perf-trill****Samples: 1928 RAM: 120 MB****Level 2**

Performance trills, minor 2nd to 4th

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**43 Sordino PERF REPETITION****Range: C3–G#6****Level 1:**

Legato  
Staccato  
Spiccato

**Level 2:**

Portato  
Crescendo repetitions, all articulations

**01 VA\_mu\_perf-rep\_leg****Samples: 220****RAM: 13 MB****Level 1**

Legato

2 velocity layers: 0–88 p; 89–127 f

**02 VA\_mu\_perf-rep\_por****Samples: 396****RAM: 24 MB****Level 2**

Portato

2 velocity layers: 0–88 p; 89–127 f

**03 VA\_mu\_perf-rep\_sta****Samples: 396****RAM: 24 MB****Level 1**

Staccato

2 velocity layers: 0–88 p; 89–127 f

**04 VA\_mu\_perf-rep\_spi****Samples: 396****RAM: 24 MB****Level 1**

Spiccato

2 velocity layers: 0–88 p; 89–127 f

**21 VA\_mu\_perf-rep\_cre5\_leg****Samples: 110****RAM: 6 MB****Level 2**

Legato crescendo, 5 repetitions

1 velocity layer

**22 VA\_mu\_perf-rep\_cre9\_por****Samples: 198****RAM: 12 MB****Level 2**

Portato crescendo, 9 repetitions

1 velocity layer

**23 VA\_mu\_perf-rep\_cre9\_sta****Samples: 198****RAM: 12 MB****Level 2**

Staccato crescendo, 9 repetitions

1 velocity layer

**24 VA\_mu\_perf-rep\_cre9\_spi****Samples: 198****RAM: 12 MB****Level 2**

Spiccato crescendo, 9 repetitions

1 velocity layer

**44 Sordino FAST REPETITION****Range: C3–D6****Level 2:**

Fast repetitions, 16ths at 150 to 190 BPM

**01 VA\_mu\_fast-rep\_150 (160/170/180/190)****Samples: 76****RAM: 4 MB****Level 2**

Staccato, 16 repetitions

16ths at 150 to 190 BPM

2 velocity layers: 0–88 p; 89–127 f

Release samples

## 98 RESOURCES

### 01 Perf Rep dyn sordino Range: C3–G#6

**Level 2:** Isolated dynamics repetitions  
Legato, portato, staccato, spiccato

#### 01 VA\_mu\_rep\_cre5\_leg-1 (2/3/4/5)

**Samples: 22    RAM: 1 MB    Level 2**

Extracted repetitions: Legato, crescendo, 1st to 5th repetition  
1 velocity layer

#### 02 VA\_mu\_rep\_cre9\_por-1 (2/3/4/5/6/7/8/9)

**Samples: 22    RAM: 1 MB    Level 2**

Extracted repetitions: Portato, crescendo, 1st to 9th repetition  
1 velocity layer

#### 03 VA\_mu\_rep\_cre9\_sta-1 (2/3/4/5/6/7/8/9)

**Samples: 22    RAM: 1 MB    Level 2**

Extracted repetitions: Staccato, crescendo, 1st to 9th repetition  
1 velocity layer

#### 04 VA\_mu\_rep\_cre9\_spi-1 (2/3/4/5/6/7/8/9)

**Samples: 22    RAM: 1 MB    Level 2**

Extracted repetitions: Spiccato, crescendo, 1st to 9th repetition  
1 velocity layer

## 99 RELEASE TRIGGER

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

## Matrices

### Matrix - LEVEL 1 mu

#### L1 VA\_mu Articulation Combi

Samples: 1558 RAM: 97 MB **Level 1**

Single notes: Staccato, short détaché, sustained with vibrato, fortepiano, sforzato, tremolo sustained, harmonics staccato and sustained, pizzicato

**Matrix switches:** Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	staccato	sustained vib.	fortepiano	tremolo	harmonics staccato	pizzicato
V2	détaché short	sustained vib.	sforzato	tremolo, auto attack	harmonics sustained	pizzicato

#### L1 VA\_mu Perf-Legato Speed + porta

Samples: 2270 RAM: 141 MB **Level 1**

Interval performances: Legato normal and fast, portamento  
Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
V1	legato	legato, fast
V2	portamento	legato, fast

#### L1 VA\_mu Perf-Repetitions Combi

Samples: 1012 RAM: 63 MB **Level 1**

Repetition performances: Legato, staccato, spiccato

**Matrix switches:** Vertical: Modwheel, 3 zones

	H1
V1	legato
V2	staccato
V3	spiccato

### Matrix - LEVEL 2 F - mu Advanced

#### 01 VA\_mu Perf-Universal

Samples: 2824 RAM: 176 MB **Level 2**

Interval performances: Legato normal and fast, marcato, spiccato  
Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

	H1	H2
V1	legato	legato, fast
V2	marcato	marcato
V3	spiccato	spiccato

#### 02 VA\_mu Perf-Legato - All

Samples: 2398 RAM: 149 MB **Level 2**

Interval performances: Legato with normal, progressive, and without vibrato; portamento

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
V1	legato, vibrato	legato, prog. vib.	legato, no vib.
V2	portamento	portamento	portamento

**03 VA\_mu Perf-Trill Speed****Samples: 3272 RAM: 204 MB Level 2**

Interval performances: legato with vibrato, and trills

Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
V1	legato, vib.	trills

**04 VA\_mu Articulation Combi large****Samples: 4358 RAM: 272 MB Level 2**

Staccato, short and long détaché

Sustained with normal, progressive, and without vibrato

Fortepiano, sforzato, sforzatissimo

Medium dynamics, 2, 3, and 4 sec.

Tremolo sustained

Harmonics staccato and sustained

Performances, legato, staccato, spiccato, normal and crescendo

Fast repetitions, 150, 170, 190 BPM

Pizzicato

**Matrix switches:** Horizontal: Keyswitches, C1–A1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	staccato	sustained vib.	fortepiano	medium dyn. 2 sec.	tremolo	harmonics staccato	perf.rep. legato	perf.rep. legato cres.	fast rep. 150 BPM	pizzicato
V2	détaché short	sustained prog. vib.	sforzato	medium dyn. 3 sec.	tremolo, auto attack	harmonics sustained	perf.rep. staccato	perf.rep. staccato cres.	fast rep. 170 BPM	pizzicato
V3	détaché long	sustained no vib.	sforzatissimo	medium dyn. 4 sec.	tremolo, staccato attack	harmonics sus., stacc. attack	perf.rep. spiccato	perf.rep. spiccato cres.	fast rep. 190 BPM	pizzicato

**05 VA\_mu Dynamics****Samples: 670 RAM: 41 MB Level 2**

Dynamics

Medium and strong crescendo and diminuendo, 2, 3, and 4 sec.

Crescendo-diminuendo, 2, 4, and 6 sec.

Fortepiano, sforzato, sforzatissimo

AB switch: crescendo/diminuendo

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
dyn.strong	2 sec.	3 sec.	4 sec.
cres-dim	2 sec.	4 sec.	6 sec.
sfz	fp	sfz	sfz

**Matrix - LEVEL 2 G - mu Repetitions****11 VA\_mu Perf-Repetitions - Combi****Samples: 2112 RAM: 132 MB Level 2**

Repetition performances

Legato, portato, staccato, and spiccato

Normal and crescendo

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
normal	legato	portato	staccato	spiccato
crescendo	legato	portato	staccato	spiccato



**12 VA\_mu Perf-Repetitions - Speed****Samples: 1408 RAM: 88 MB****Level 2**

Repetition performances

Legato, portato, staccato, and spiccato

Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato	portato	staccato	spiccato

**13 VA\_mu Fast-Repetitions****Samples: 228 RAM: 14 MB****Level 2**

Fast repetitions

Staccato, 16ths at 150 to 190 BPM

**Matrix switches:** Horizontal: Keyswitches, C1-E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

**Matrix - LEVEL 2 H - mu Keyswitch Vel****21 VA\_mu Legato - cre5****Samples: 110 RAM: 6 MB****Level 2**

Legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1-E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**22 VA\_mu Portato - cre9****Samples: 198 RAM: 12 MB****Level 2**

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1-G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**23 VA\_mu Staccato - cre9****Samples: 198 RAM: 12 MB****Level 2**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1-G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**24 VA\_mu Spiccato - cre9****Samples: 198 RAM: 12 MB****Level 2**

Spiccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1-G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**25 VA\_mu Combi - cre9****Samples: 594 RAM: 37 MB Level 2**

Portato, staccato, spiccato: Crescendo, keyswitch velocity  
 Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%

**Presets****VA\_mu VSL Preset Level 1****Samples: 4496 RAM: 281 MB Level 1**

L1 VA\_mu Perf-Legato Speed + porta  
 L1 VA\_mu Articulation Combi  
 L1 VA\_mu Perf-Repetitions Combi  
 Preset keyswitches: C2–D2

**VA\_mu VSL Preset Level 2****Samples: 8070 RAM: 504 MB Level 2**

01 VA\_mu Perf-Universal  
 02 VA\_mu Perf-Legato - All  
 04 VA\_mu Articulation Combi large  
 11 VA\_mu Perf-Repetitions - Combi  
 25 VA\_mu Combi - cre9  
 Preset keyswitches: C2–E2

# 03 Cello solo

## Patches

### 14 FAST REPETITION

Range: C2–E6



**Level 2:** Fast repetitions, long, 16ths at 150 to 190 BPM

### 06 VC\_fast-rep\_long\_150 (160/170/180/190)

Samples: 104

RAM: 6 MB

**Level 2**

Fast repetitions, long, 16ths at 150 to 190 BPM

2 velocity layers: 0–88 p; 89–127 f

Release samples

### 31 Sordino SHORT + LONG NOTES

Range: C2–E6



**Level 1:** Staccato  
Short détaché  
Sustained with vibrato

**Level 2:** Long détaché  
Sustained with progressive and without vibrato

### 01 VC\_mu\_staccato

Samples: 324

RAM: 20 MB

**Level 1**

Staccato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 02 VC\_mu\_detache\_short

Samples: 324

RAM: 20 MB

**Level 1**

Short détaché

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 03 VC\_mu\_detache\_long

Samples: 324

RAM: 20 MB

**Level 2**

Long détaché

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 10 VC\_mu\_sus\_Vib

Samples: 431

RAM: 26 MB

**Level 1**

Sustained, with vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

### 11 VC\_mu\_sus\_Vib-progr

Samples: 431

RAM: 26 MB

**Level 2**

Sustained, with progressive vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

**12 VC\_mu\_sus\_noVib****Samples: 431   RAM: 26 MB   Level 2**

Sustained, without vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

**32 Sordino DYNAMICS****Range: C2–E6****Level 1:** Fortepiano and sforzato with vibrato**Level 2:** Medium dynamics, 2, 3, 4 sec.

Strong dynamics, 2, 3, 4 sec.

Crescendo-diminuendo, 2, 4, 6 sec.

Sforzatissimo

All patches with vibrato

**01 VC\_mu\_dyn-me\_Vib\_2s****Samples: 104   RAM: 6 MB   Level 2**

Medium crescendo and diminuendo, with vibrato, 2 sec.

**02 VC\_mu\_dyn-me\_Vib\_3s****Samples: 104   RAM: 6 MB   Level 2**

Medium crescendo and diminuendo, with vibrato, 3 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

**03 VC\_mu\_dyn-me\_Vib\_4s****Samples: 104   RAM: 6 MB   Level 2**

Medium crescendo and diminuendo, with vibrato, 4 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

**11 VC\_mu\_dyn-str\_Vib\_2s****Samples: 52   RAM: 3 MB   Level 2**

Strong crescendo and diminuendo, with vibrato, 2 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**12 VC\_mu\_dyn-str\_Vib\_3s****Samples: 52   RAM: 3 MB   Level 2**

Strong crescendo and diminuendo, with vibrato, 3 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**13 VC\_mu\_dyn-str\_Vib\_4s****Samples: 52   RAM: 3 MB   Level 2**

Strong crescendo and diminuendo, with vibrato, 4 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**21 VC\_mu\_pfp\_Vib\_2s****Samples: 52   RAM: 3 MB   Level 2**


Crescendo-diminuendo, with vibrato, 2 sec.

2 velocity layers: 0–88 p; 89–127 f

**22 VC\_mu\_pfp\_Vib\_4s****Samples: 52   RAM: 3 MB   Level 2**

Crescendo-diminuendo, with vibrato, 4 sec.

2 velocity layers: 0–88 p; 89–127 f

<b>23 VC_mu_pfp_Vib_6s</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
Crescendo-diminuendo, with vibrato, 6 sec. 2 velocity layers: 0–88 p; 89–127 f			
<b>31 VC_mu_fp_Vib</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
Fortepiano, with vibrato			
<b>32 VC_mu_sfz_Vib</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
Sforzato, with vibrato 1 velocity layer 2 Alternations			
<b>33 VC_mu_sffz_Vib</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
Sforzatissimo, with vibrato 1 velocity layer 2 Alternations			
<b>33 Sordino TREMOLO</b>			
<b>Range: C2–E6</b>			
<b>Level 1:</b> Tremolo sustained Normal and with attack automation			
<b>Level 2:</b> Tremolo sustained, optimized attack for legato			
<b>01 VC_mu_trem_sus</b>	<b>Samples: 156</b>	<b>RAM: 9 MB</b>	<b>Level 1</b>
Tremolo, sustained 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples			
<b>02 VC_mu_trem_sus_fA</b>	<b>Samples: 156</b>	<b>RAM: 9 MB</b>	<b>Level 2</b>
Tremolo, sustained Optimized attack for legato Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples			
<b>03 VC_mu_trem_sus_fA_auto</b>	<b>Samples: 156</b>	<b>RAM: 9 MB</b>	<b>Level 1</b>
Tremolo, sustained Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples			

**34 Sordino PIZZ****Range: C2–E6****Level 1:** Pizzicato**01 VC\_mu\_pizz****Samples: 324 RAM: 20 MB Level 1**

Pizzicato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

**35 Sordino HARMONICS****Range: C3–G6****Level 1:** Artificial harmonics  
Staccato and sustained**01 VC\_mu\_harm-art\_stac****Samples: 176 RAM: 11 MB Level 1**

Artificial harmonics, staccato

2 velocity layers: 0–88 p; 89–127 f

4 Alternations

**02 VC\_mu\_harm-art\_sus****Samples: 132 RAM: 8 MB Level 1**

Artificial harmonics, sustained

2 velocity layers: 0–88 p; 89–127 f

Release samples

2 Alternations

**40 Sordino PERF INTERVAL****Range: C2–G5****Level 1:** Legato, with vibrato  
Portamento**Level 2:** Legato, with progressive and without vibrato  
Marcato  
Spiccato**01 VC\_mu\_perf-legato\_Vib****Samples: 1271 RAM: 79 MB Level 1**

Legato, with vibrato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**02 VC\_mu\_perf-legato\_Vib-prog****Samples: 1271 RAM: 79 MB Level 2**

Legato, with progressive vibrato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**03 VC\_mu\_perf-legato\_noVib****Samples: 1271 RAM: 79 MB****Level 2**

Legato, without vibrato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**04 VC\_mu\_perf-portamento****Samples: 1358 RAM: 84 MB****Level 1**

Portamento

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: sus normal/sul. If set to B, this AB switch provides repetition notes played on the same string as the target note of the preceding interval. For larger interval steps, selecting B after upward movements and A after downward movements gives good results; however, the best way to use this AB switch is try out what sounds best from case to case.

**05 VC\_mu\_perf-marcato****Samples: 1084 RAM: 67 MB****Level 2**

Marcato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**06 VC\_mu\_perf-spiccato****Samples: 642 RAM: 40 MB****Level 2**

Spiccato

Monophonic

1 velocity layer

**41 Sordino PERF INTERVAL FAST****Range: C2–G5****Level 1:** Legato fast**01 VC\_mu\_perf-legato\_fa****Samples: 1271 RAM: 79 MB****Level 1**

Legato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**42 Sordino PERF TRILL****Range: C2–G5****Level 2:** Trills, minor 2nd to 4th**01 VC\_mu\_perf-trill****Samples: 3291 RAM: 205 MB****Level 2**

Performance trills, minor 2nd to 4th

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**43 Sordino PERF REPETITION****Range: C2–E6**

- Level 1:** Legato  
Staccato  
Spiccato
- Level 2:** Portato  
Crescendo repetitions, all articulations

<b>01 VC_mu_perf-rep_leg</b> Legato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 260</b>	<b>RAM: 16 MB</b>	<b>Level 1</b>
<b>02 VC_mu_perf-rep_por</b> Portato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 468</b>	<b>RAM: 29 MB</b>	<b>Level 2</b>
<b>03 VC_mu_perf-rep_sta</b> Staccato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 468</b>	<b>RAM: 29 MB</b>	<b>Level 1</b>
<b>04 VC_mu_perf-rep_spi</b> Spiccato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 468</b>	<b>RAM: 29 MB</b>	<b>Level 1</b>
<b>21 VC_mu_perf-rep_cre5_leg</b> Legato crescendo, 5 repetitions 1 velocity layer	<b>Samples: 130</b>	<b>RAM: 8 MB</b>	<b>Level 2</b>
<b>22 VC_mu_perf-rep_cre9_por</b> Portato crescendo, 9 repetitions 1 velocity layer	<b>Samples: 234</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>23 VC_mu_perf-rep_cre9_sta</b> Staccato crescendo, 9 repetitions	<b>Samples: 234</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>
<b>24 VC_mu_perf-rep_cre9_spi</b> Spiccato crescendo, 9 repetitions 1 velocity layer	<b>Samples: 234</b>	<b>RAM: 14 MB</b>	<b>Level 2</b>

**44 Sordino FAST REPETITION****Range: C2–E6**

- Level 2:** Fast repetitions, 16ths at 150 to 190 BPM

<b>01 VC_mu_fast-rep_150 (160/170/180/190)</b> Staccato, 16 repetitions 16ths at 150 to 190 BPM 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Samples: 104</b>	<b>RAM: 6 MB</b>	<b>Level 2</b>
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## 98 RESOURCES

### 01 Perf Rep dyn sordino Range: C2–E6

**Level 2:** Isolated dynamics repetitions  
Legato, portato, staccato, spiccato

<b>01 VC_mu_rep_cre5_leg-1 (2/3/4/5)</b>	<b>Samples: 26</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Legato, crescendo, 1st to 5th repetition  
1 velocity layer

<b>02 VC_mu_rep_cre9_por-1 (2/3/4/5/6/7/8/9)</b>	<b>Samples: 26</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Portato, crescendo, 1st to 9th repetition  
1 velocity layer

<b>03 VC_mu_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)</b>	<b>Samples: 26</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Staccato, crescendo, 1st to 9th repetition  
1 velocity layer

<b>04 VC_mu_rep_cre9_spi-1 (2/3/4/5/6/7/8/9)</b>	<b>Samples: 26</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
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Extracted repetitions: Spiccato, crescendo, 1st to 9th repetition  
1 velocity layer

## 99 RELEASE TRIGGER

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

## Matrices

### Matrix - LEVEL 1 mu

#### L1 VC\_mu Articulation Combi

Samples: 1971 RAM: 123 MB **Level 1**

Single notes: Staccato, short détaché, sustained with vibrato, fortepiano, sforzato, tremolo sustained, harmonics staccato and sustained, pizzicato

**Matrix switches:** Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	staccato	sustained vib.	fortepiano	tremolo	harmonics staccato	pizzicato
V2	détaché short	sustained vib.	sforzato	tremolo, auto attack	harmonics sustained	pizzicato

#### L1 VC\_mu Perf-Legato Speed + porta

Samples: 2650 RAM: 165 MB **Level 1**

Interval performances: Legato normal and fast, portamento  
Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
V1	legato	legato, fast
V2	portamento	legato, fast

#### L1 VC\_mu Perf-Repetitions Combi

Samples: 1196 RAM: 74 MB **Level 1**

Repetition performances: Legato, staccato, spiccato

**Matrix switches:** Vertical: Modwheel, 3 zones

	H1
V1	legato
V2	staccato
V3	spiccato

### Matrix - LEVEL 2 F - mu Advanced

#### 01 VC\_mu Perf-Universal

Samples: 3293 RAM: 205 MB **Level 2**

Interval performances: Legato normal and fast, marcato, spiccato  
Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

	H1	H2
V1	legato	legato, fast
V2	marcato	marcato
V3	spiccato	spiccato

#### 02 VC\_mu Perf-Legato - All

Samples: 2774 RAM: 173 MB **Level 2**

Interval performances: Legato with normal, progressive, and without vibrato; portamento

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
V1	legato, vibrato	legato, prog. vib.	legato, no vib.
V2	portamento	portamento	portamento

**03 VC\_mu Perf-Trill Speed****Samples: 3695 RAM: 230 MB Level 2**

Interval performances: legato with vibrato, and trills

Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
V1	legato, vib.	trills

**04 VC\_mu Articulation Combi large****Samples: 5285 RAM: 330 MB Level 2**

Staccato, short and long détaché

Sustained with normal, progressive, and without vibrato

Fortepiano, sforzato, sforzatissimo

Medium dynamics, 2, 3, and 4 sec.

Tremolo sustained

Harmonics staccato and sustained

Performances, legato, staccato, spiccato, normal and crescendo

Fast repetitions, 150, 170, 190 BPM

Pizzicato

**Matrix switches:** Horizontal: Keyswitches, C1–A1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	staccato	sustained vib.	fortepiano	medium dyn. 2 sec.	tremolo	harmonics staccato	perf.rep. leg			

**05 VC\_mu Dynamics****Samples: 780 RAM: 48 MB Level 2**

Dynamics

Medium and strong crescendo and diminuendo, 2, 3, and 4 sec.

Crescendo-diminuendo, 2, 4, and 6 sec.

Fortepiano, sforzato, sforzatissimo

AB switch: crescendo/diminuendo

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
dyn.strong	2 sec.	3 sec.	4 sec.
cres-dim	2 sec.	4 sec.	6 sec.
sfz	fp	sfz	sfz

**Matrix - LEVEL 2 G - mu Repetitions****11 VC\_mu Perf-Repetitions - Combi****Samples: 2496 RAM: 156 MB Level 2**

Repetition performances

Legato, portato, staccato, and spiccato

Normal and crescendo

**Matrix switches:** Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
normal	legato	portato	staccato	spiccato
crescendo	legato	portato	staccato	spiccato

**12 VC\_mu Perf-Repetitions - Speed****Samples: 1664 RAM: 104 MB Level 2**

Repetition performances

Legato, portato, staccato, and spiccato

Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato	portato	staccato	spiccato

**13 VC\_mu Fast-Repetitions****Samples: 312 RAM: 19 MB Level 2**

Fast repetitions

Staccato, 16ths at 150 to 190 BPM

**Matrix switches:** Horizontal: Keyswitches, C1-E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

**Matrix - LEVEL 2 H - mu Keyswitch Vel****21 VC\_mu Legato - cre5****Samples: 130 RAM: 8 MB Level 2**

Legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1-E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

**22 VC\_mu Portato - cre9****Samples: 234 RAM: 14 MB Level 2**

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1-G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**23 VC\_mu Staccato - cre9****Samples: 234 RAM: 14 MB Level 2**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1-G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**24 VC\_mu Spiccato - cre9****Samples: 234 RAM: 14 MB Level 2**

Spiccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1-G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**25 VC\_mu Combi - cre9****Samples: 702 RAM: 43 MB Level 2**

Portato, staccato, spiccato: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%

**Presets****VC\_mu VSL Preset Level 1****Samples: 5434 RAM: 339 MB Level 1**

L1 VC\_mu Perf-Legato Speed + porta

L1 VC\_mu Articulation Combi

L1 VC\_mu Perf-Repetitions Combi

Preset keyswitches: C6–D6

**VC\_mu VSL Preset Level 2****Samples: 9674 RAM: 604 MB Level 2**

01 VC\_mu Perf-Universal

02 VC\_mu Perf-Legato - All

04 VC\_mu Articulation Combi large

11 VC\_mu Perf-Repetitions - Combi

25 VC\_mu Combi - cre9

Preset keyswitches: C6–E6

# 04 Bass solo

## Patches

### 14 FAST REPETITION

Range: B0–F4



**Level 2:** Fast repetitions, long, 16ths at 150 to 190 BPM

### 06 DB\_fast-rep\_long\_150 (160/170/180/190)

Samples: 76

RAM: 4 MB

Level 2

Fast repetitions, long, 16ths at 150 to 190 BPM

2 velocity layers: 0–88 p; 89–127 f

Release samples

### 31 Sordino SHORT + LONG NOTES

Range: B0–F4



**Level 1:** Staccato  
Short détaché  
Sustained with vibrato

**Level 2:** Long détaché  
Sustained with progressive and without vibrato

### 01 DB\_mu\_staccato

Samples: 228

RAM: 14 MB

Level 1

Staccato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 02 DB\_mu\_detache\_short

Samples: 228

RAM: 14 MB

Level 1

Short détaché

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 03 DB\_mu\_detache\_long

Samples: 228

RAM: 14 MB

Level 2

Long détaché

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

4 Alternations

### 10 DB\_mu\_sus\_Vib

Samples: 304

RAM: 19 MB

Level 1

Sustained, with vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

### 11 DB\_mu\_sus\_Vib-progr

Range: B0–E4

Samples: 238

RAM: 14 MB

Level 2

Sustained, with progressive vibrato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

**12 DB\_mu\_sus\_noVib****Samples: 304   RAM: 19 MB   Level 2**

Sustained, without vibrato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

**32 Sordino DYNAMICS****Range: B0–F4****Level 1:** Fortepiano and sforzato with vibrato**Level 2:** Medium dynamics, 2, 3, 4 sec.

Strong dynamics, 2, 3, 4 sec.

Crescendo-diminuendo, 2, 4, 6 sec.

Sforzatissimo

All patches with vibrato

**01 DB\_mu\_dyn-me\_Vib\_2s****Samples: 72   RAM: 4 MB   Level 2**

Medium crescendo and diminuendo, with vibrato, 2 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

**02 DB\_mu\_dyn-me\_Vib\_3s****Samples: 72   RAM: 4 MB   Level 2**

Medium crescendo and diminuendo, with vibrato, 3 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

**03 DB\_mu\_dyn-me\_Vib\_4s****Samples: 72   RAM: 4 MB   Level 2**

Medium crescendo and diminuendo, with vibrato, 4 sec.

**11 DB\_mu\_dyn-str\_Vib\_2s****Samples: 36   RAM: 2 MB   Level 2**

Strong crescendo and diminuendo, with vibrato, 2 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**12 DB\_mu\_dyn-str\_Vib\_3s****Samples: 36   RAM: 2 MB   Level 2**

Strong crescendo and diminuendo, with vibrato, 3 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**13 DB\_mu\_dyn-str\_Vib\_4s****Samples: 36   RAM: 2 MB   Level 2**

Strong crescendo and diminuendo, with vibrato, 4 sec.

1 velocity layer

AB switch: crescendo/diminuendo

**21 DB\_mu\_pfp\_Vib\_2s****Range: B0–E4****Samples: 36   RAM: 2 MB   Level 2**

Crescendo-diminuendo, with vibrato, 2 sec.


2 velocity layers: 0–88 p; 89–127 f


**22 DB\_mu\_pfp\_Vib\_4s****Range: B0–E4****Samples: 36   RAM: 2 MB   Level 2**

Crescendo-diminuendo, with vibrato, 4 sec.

2 velocity layers: 0–88 p; 89–127 f

<b>23 DB_mu_pfp_Vib_6s</b>	<b>Range: B0–E4</b>	<b>Samples: 18</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
Crescendo-diminuendo, with vibrato, 6 sec. 1 velocity layer				
<b>31 DB_mu_fp_Vib</b>		<b>Samples: 54</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
Fortepiano, with vibrato 1 velocity layer				
<b>32 DB_mu_sfz_Vib</b>		<b>Samples: 54</b>	<b>RAM: 3 MB</b>	<b>Level 1</b>
Sforzato, with vibrato 1 velocity layer				
<b>33 DB_mu_sffz_Vib</b>		<b>Samples: 54</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
Sforzatissimo, with vibrato				

<b>33 Sordino TREMOLO</b>		<b>Range: B0–F4</b>		
<b>Level 1:</b>	Tremolo sustained Normal and with attack automation			
<b>Level 2:</b>	Tremolo sustained, optimized attack for legato			
<b>01 DB_mu_trem_sus</b>		<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 1</b>
Tremolo, sustained 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples				
<b>02 DB_mu_trem_sus_fA</b>		<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
Tremolo, sustained Optimized attack for legato Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples				
<b>03 DB_mu_trem_sus_fA_auto</b>		<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 1</b>
Tremolo, sustained Attack automation Monophonic 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples				

<b>34 Sordino PIZZ</b>		<b>Range: B0–F4</b>		
<b>Level 1:</b>	Pizzicato			
<b>01 DB_mu_pizz</b>		<b>Samples: 222</b>	<b>RAM: 13 MB</b>	<b>Level 1</b>
Pizzicato				
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f				
2 Alternations				



**35 Sordino HARMONICS****Range: B1–A4**

**Level 1:** Artificial harmonics  
Staccato and sustained

**01 DB\_mu\_harm-art\_stac****Samples: 128****RAM: 8 MB****Level 1**

Artificial harmonics, staccato  
2 velocity layers: 0–88 p; 89–127 f  
4 Alternations

**02 DB\_mu\_harm-art\_sus****Samples: 96****RAM: 6 MB****Level 1**

Artificial harmonics, sustained  
2 velocity layers: 0–88 p; 89–127 f  
Release samples  
2 Alternations

**40 Sordino PERF INTERVAL****Range: B0–A#3**

**Level 1:** Legato, with vibrato  
Portamento

**Level 2:** Legato, with progressive and without vibrato  
Marcato  
Spiccato

**01 DB\_mu\_perf-legato\_Vib****Samples: 820****RAM: 51 MB****Level 1**

Legato, with vibrato  
Monophonic  
2 velocity layers: 0–88 p; 89–127 f  
Release samples

**02 DB\_mu\_perf-legato\_Vib-prog****Samples: 784****RAM: 49 MB****Level 2**

Legato, with progressive vibrato  
Monophonic  
2 velocity layers: 0–88 p; 89–127 f  
Release samples

**03 DB\_mu\_perf-legato\_noVib****Samples: 820****RAM: 51 MB****Level 2**

Legato, without vibrato  
Monophonic  
2 velocity layers: 0–88 p; 89–127 f  
Release samples

**04 DB\_mu\_perf-portamento****Samples: 878****RAM: 54 MB****Level 1**

Portamento  
Monophonic  
2 velocity layers: 0–88 p; 89–127 f  
Release samples

AB switch: sus normal/sul. If set to B, this AB switch provides repetition notes played on the same string as the target note of the preceding interval. For larger interval steps, selecting B after upward movements and A after downward movements gives good results; however, the best way to use this AB switch is try out what sounds best from case to case.

**05 DB\_mu\_perf-marcato****Samples: 688 RAM: 43 MB Level 2**

Marcato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**06 DB\_mu\_perf-spiccato****Samples: 840 RAM: 52 MB Level 2**

Spiccato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

**41 Sordino PERF INTERVAL FAST****Range: B0–A#3****Level 1:** Legato fast**01 DB\_mu\_perf-legato\_fa****Samples: 724 RAM: 45 MB Level 1**

Legato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**42 Sordino PERF TRILL****Range: B0–A#3****Level 2:** Trills, minor and major 2nd**01 DB\_mu\_perf-trill****Samples: 1284 RAM: 80 MB Level 2**

Performance trills, minor and major 2nd

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**43 Sordino PERF REPETITION****Range: B0–F4****Level 1:** Legato  
Staccato  
Spiccato**Level 2:** Portato  
Crescendo repetitions, all articulations**01 DB\_mu\_perf-rep\_leg****Samples: 190 RAM: 11 MB Level 1**

Legato

2 velocity layers: 0–88 p; 89–127 f

**02 DB\_mu\_perf-rep\_por****Samples: 342 RAM: 21 MB Level 2**

Portato

2 velocity layers: 0–88 p; 89–127 f

<b>03 DB_mu_perf-rep_sta</b> Staccato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 1</b>
<b>04 DB_mu_perf-rep_spi</b> Spiccato 2 velocity layers: 0–88 p; 89–127 f	<b>Samples: 342</b>	<b>RAM: 21 MB</b>	<b>Level 1</b>
<b>21 DB_mu_perf-rep_cre5_leg</b> Legato crescendo, 5 repetitions 1 velocity layer	<b>Samples: 95</b>	<b>RAM: 5 MB</b>	<b>Level 2</b>
<b>22 DB_mu_perf-rep_cre9_por</b> Portato crescendo, 9 repetitions 1 velocity layer	<b>Samples: 171</b>	<b>RAM: 10 MB</b>	<b>Level 2</b>
<b>23 DB_mu_perf-rep_cre9_sta</b> Staccato crescendo, 9 repetitions 1 velocity layer	<b>Samples: 171</b>	<b>RAM: 10 MB</b>	<b>Level 2</b>
<b>24 DB_mu_perf-rep_cre9_spi</b> Spiccato crescendo, 9 repetitions 1 velocity layer	<b>Samples: 171</b>	<b>RAM: 10 MB</b>	<b>Level 2</b>

**44 Sordino FAST REPETITION****Range: B0–F4****Level 2:** Fast repetitions, 16ths at 150 to 190 BPM

<b>01 DB_mu_fast-rep_150 (160/170/180/190)</b> Staccato, 16 repetitions 16ths at 150 to 190 BPM 2 velocity layers: 0–88 p; 89–127 f Release samples	<b>Samples: 76</b>	<b>RAM: 4 MB</b>	<b>Level 2</b>
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**98 RESOURCES**

<b>01 Perf Rep dyn sordino</b> <b>Level 2:</b> Isolated dynamics repetitions Legato, portato, staccato, spiccato	<b>Range: B0–F4</b>		
<b>01 DB_mu_rep_cre5_leg-1 (2/3/4/5)</b> Extracted repetitions: Legato, crescendo, 1st to 5th repetition	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>02 DB_mu_rep_cre9_por-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Portato, crescendo, 1st to 9th repetition	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>
<b>03 DB_mu_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Staccato, crescendo, 1st to 9th repetition	<b>Samples: 19</b>	<b>RAM: 1 MB</b>	<b>Level 2</b>

**04 DB\_mu\_rep\_cre9\_spi-1 (2/3/4/5/6/7/8/9)****Samples: 19****RAM: 1 MB****Level 2**

Extracted repetitions: Spiccato, crescendo, 1st to 9th repetition

**99 RELEASE TRIGGER**

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

## Matrices

### Matrix - LEVEL 1 mu

#### L1 DB\_mu Articulation Combi

Samples: 1536 RAM: 96 MB **Level 1**

Single notes: Staccato, short détaché, sustained with vibrato, fortepiano, sforzato, tremolo sustained, harmonics staccato and sustained, pizzicato

**Matrix switches:** Horizontal: Keyswitches, C6–F6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6	F6
V1	staccato	sustained vib.	fortepiano	tremolo	harmonics staccato	pizzicato
V2	détaché short	sustained vib.	sforzato	tremolo, auto attack	harmonics sustained	pizzicato

#### L1 DB\_mu Perf-Legato Speed + porta

Samples: 1542 RAM: 96 MB **Level 1**

Interval performances: Legato normal and fast, portamento  
Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
V1	legato	legato, fast
V2	portamento	legato, fast

#### L1 DB\_mu Perf-Repetitions Combi

Samples: 874 RAM: 54 MB **Level 1**

Repetition performances: Legato, staccato, spiccato

**Matrix switches:** Vertical: Modwheel, 3 zones

	H1
V1	legato
V2	staccato
V3	spiccato

### Matrix - LEVEL 2 F - mu Advanced

#### 01 DB\_mu Perf-Universal

Samples: 2384 RAM: 149 MB **Level 2**

Interval performances: Legato normal and fast, marcato, spiccato  
Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

	H1	H2
V1	legato	legato, fast
V2	marcato	marcato
V3	spiccato	spiccato

#### 02 DB\_mu Perf-Legato - All

Samples: 1766 RAM: 110 MB **Level 2**

Interval performances: Legato with normal, progressive, and without vibrato; portamento

**Matrix switches:** Horizontal: Keyswitches, C6–D6 Vertical: Modwheel, 2 zones

	C6	C#6	D6
V1	legato, vibrato	legato, prog. vib.	legato, no vib.
V2	portamento	portamento	portamento

**03 DB\_mu Perf-Trill Speed****Samples: 1492 RAM: 93 MB Level 2**

Interval performances: legato with vibrato, and trills

Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
V1	legato, vib.	trills

**04 DB\_mu Articulation Combi large****Samples: 3887 RAM: 242 MB Level 2**

Staccato, short and long détaché

Sustained with normal, progressive, and without vibrato

Fortepiano, sforzato, sforzatissimo

Medium dynamics, 2, 3, and 4 sec.

Tremolo sustained

Harmonics staccato and sustained

Performances, legato, staccato, spiccato, normal and crescendo

Fast repetitions, 150, 170, 190 BPM

Pizzicato

**Matrix switches:** Horizontal: Keyswitches, C6–A6 Vertical: Modwheel, 3 zones

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6
V1	staccato	sustained vib.	fortepiano	medium dyn. 2 sec.	tremolo	harmonics staccato	perf.rep. legato	perf.rep. legato cres.	fast rep. 150 BPM	pizzicato
V2	détaché short	sustained prog. vib.	sforzato	medium dyn. 3 sec.	tremolo, auto attack	harmonics sustained	perf.rep. staccato	perf.rep. staccato cres.	fast rep. 170 BPM	pizzicato
V3	détaché long	sustained no vib.	sforzatissimo	medium dyn. 4 sec.	tremolo, staccato attack	harmonics sus., stacc. attack	perf.rep. spiccato	perf.rep. spiccato cres.	fast rep. 190 BPM	pizzicato

**05 DB\_mu Dynamics****Samples: 576 RAM: 36 MB Level 2**

Dynamics

Medium and strong crescendo and diminuendo, 2, 3, and 4 sec.

Crescendo-diminuendo, 2, 4, and 6 sec.

Fortepiano, sforzato, sforzatissimo

AB switch: crescendo/diminuendo

**Matrix switches:** Horizontal: Keyswitches, C6–D6 Vertical: Modwheel, 4 zones

	C6	C#6	D6
dyn.medium	2 sec.	3 sec.	4 sec.
dyn.strong	2 sec.	3 sec.	4 sec.
cres-dim	2 sec.	4 sec.	6 sec.
sfz	fp	sfz	sfz

**Matrix - LEVEL 2 G - mu Repetitions****11 DB\_mu Perf-Repetitions - Combi****Samples: 1824 RAM: 114 MB Level 2**

Repetition performances

Legato, portato, staccato, and spiccato

Normal and crescendo

**Matrix switches:** Horizontal: Keyswitches, C6–D#6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6
normal	legato	portato	staccato	spiccato
crescendo	legato	portato	staccato	spiccato

**12 DB\_mu Perf-Repetitions - Speed****Samples: 1216 RAM: 76 MB****Level 2**

Repetition performances

Legato, portato, staccato, and spiccato

Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato	portato	staccato	spiccato

**13 DB\_mu Fast-Repetitions****Samples: 228 RAM: 14 MB****Level 2**

Fast repetitions

Staccato, 16ths at 150 to 190 BPM

**Matrix switches:** Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6
speed/BPM	150	160	170	180	190

**Matrix - LEVEL 2 H - mu Keyswitch Vel****21 DB\_mu Legato - cre5****Samples: 95****RAM: 5 MB****Level 2**

Legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6
velocity	1st	2nd	3rd	4th	5th

**22 DB\_mu Portato - cre9****Samples: 171****RAM: 10 MB****Level 2**

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**23 DB\_mu Staccato - cre9****Samples: 171****RAM: 10 MB****Level 2**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**24 DB\_mu Spiccato - cre9****Samples: 171****RAM: 10 MB****Level 2**

Spiccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**25 DB\_mu Combi - cre9****Samples: 513 RAM: 32 MB Level 2**

Portato, staccato, spiccato: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6 Vertical: Modwheel, 3 zones

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%
spiccato	1st	%	%	%	%	%	%	%	%

**Presets****DB\_mu VSL Preset Level 1****Samples: 3684 RAM: 230 MB Level 1**

L1 DB\_mu Perf-Legato Speed + porta

L1 DB\_mu Articulation Combi

L1 DB\_mu Perf-Repetitions Combi

Preset keyswitches: C7–D7

**DB\_mu VSL Preset Level 2****Samples: 6838 RAM: 427 MB Level 2**

01 DB\_mu Perf-Universal

02 DB\_mu Perf-Legato - All

04 DB\_mu Articulation Combi large

11 DB\_mu Perf-Repetitions - Combi

25 DB\_mu Combi - cre9

Preset keyswitches: C7–E7



# Vienna Instruments PRO II Matrices and Presets

# Introduction

## Update Installation – DVD Collections

All new VI PRO 2 Presets and Matrices are installed by installing the Library Updates, available in your User Area [www.vsl.co.at/user](http://www.vsl.co.at/user).

Make sure that you have installed the latest version of Vienna Instruments PRO 2 and launch the Directory Manager.

WIN: “Start” button => “All programs” => “Vienna Instruments PRO”

OS X: “Applications” => “Vienna Instruments PRO”

Drag your downloaded Library Update .zip files on top of the sample content folder list in the Directory Manager; there is no need to unpack them first. It is also possible to take more than one .zip, as they will be installed one after the other. You will be guided through the update installation.

**Attention:** Please make sure to have all the Vienna Instruments Libraries you want to update loaded entirely in the Directory Manager – this will save you a few mouseclicks.

## General Information

All Vienna Instruments PRO 2 Presets and Matrices have been saved with their cells disabled. This way you can load them quickly to analyze the various loaded Presets and Matrices.

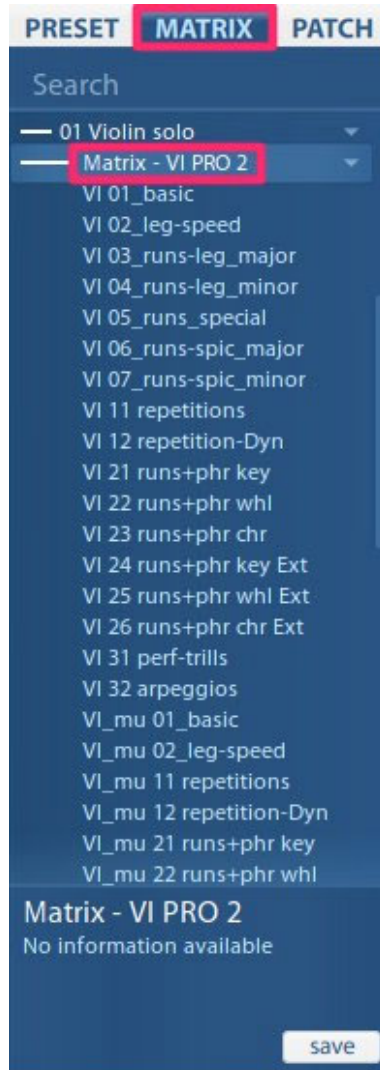
If you activate “Force Enabled ON” in the Settings Menu, these Presets and Matrices will be loaded with enabled cells.



## Single Instrument Matrices

There are special folders for Vienna Instruments PRO 2 in the Matrix list of all String and Wind Instruments:

### “MATRIX – VI PRO 2”



These folders hold up to 17 new Matrices.

Matrices from 01–09 are “conventional” matrices, without the internal APP Sequencer activated.

Matrix 11 and higher contain sequence-based Matrices.

## **“01\_basic” – The Allround Matrix**

Available for all String and Wind Instruments.

A collection of the most essential articulations of the given instrument, with up to 40 different patches.

The Patches have been assembled from the Standard & Extended Library content of each Vienna Instruments Collection, but of course these Matrices are also available if you only have a license for the Standard Library of your Collection. The Patches that are not available will appear with a red background in the Matrix Cells and in the Slot Rack.

**X-Axis Controller (horizontal):** Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards

For Contra Bass Instruments (lowest notes below C2): C6 upwards

Use these Keyswitches to change between main categories of Patches like short notes, sustains and Performance Intervals.

**Y-Axis Controller (vertical):** CC1 (ModWheel)

Use the ModWheel to access different variations of a main category, e.g., sustains: with and without vibrato, with progressive vibrato.

### **Cell Configuration:**

- C Short Single Note samples (staccato, détaché, portato)
- C# Sustains (with/without vibrato)
- D Dynamic Single Notes (fortepiano, sforzando, sforzantissimo)
- D# Performance Intervals (legato, trills, marcato, portamento)
- E Performance Repetitions (legato, portato, staccato, spiccato, harsh)
- F Fast Repetitions (in different tempos)
- F# Tremolo, flutter tongue, recorded trills
- G pizzicato, col legno (strings only)
- G# Harmonics (strings only)
- A Ponticello (strings only)

The configuration of individual Cells has been designed to be interchangeable throughout all instruments; e.g., a staccato will always be found in the same Cell position, irrespective of whether you are using a string or a wind instrument. This allows a quick change of instruments in your arrangement.

## **“02\_leg-speed” (resp. “glissando-speed”) – Tweakable Intervals**

Available for all String and Woodwind Instruments, as well as for Brass Instruments with Glissando/Portamento Patches.

The new Enveloped Stretching tools in Vienna Instruments PRO 2 allow you to control the transition length of Performance Interval Patches in real-time.

**Attention:** Loading or “enabling” these matrices for the first time will cause some delay due to the necessary rendering time.

**X-Axis Controller (horizontal):** Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards

For Contrabass Instruments (lowest notes below C2): C6 upwards

Use these Keyswitches to change between different Performance Interval Patches (legato, portamento, glissando).

**Y-Axis Controller (vertical):** CC1 (ModWheel)

Use the ModWheel to access different transition lengths for the Performance Interval Patches.

- CC1 = 1 Slow transitions
- CC1 = 64 Regular transitions
- CC1 = 127 Fast transitions

**“03\_runs-leg\_major” – Major runs on Speed**

Available for all String and Wind Instruments with originally recorded Run Patches (Solo Violin, Orchestral Strings, selected Woodwinds, Trumpets)

Enveloped time-stretching lets you switch between different rendered speeds of the recorded runs in real-time.

The first cells of each matrix row show the tempo in BPM.

The originally played runs were performed as 32nd notes.

**X-Axis Controller (horizontal):** Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards

For Contrabass Instruments (lowest notes below C2): C6 upwards

Use these Keyswitches to change between different scales from C major to B major.

**Y-Axis Controller (vertical):** CC1 (ModWheel)

Use the ModWheel to trigger different speed variations, up to 7 tempo variations.

CC1 = 1      Slowest

CC1 = 127   Fastest

**Hint:** For a more accurate selection of the intended playing speed it will make sense to change the Y-Axis Controller to Keyswitches.

**“04\_runs-leg\_minor” – Minor runs on Speed**

Like Matrix “03\_runs-leg\_major”, but based on minor harmonic scales.

**“05\_runs-special” – Special Scale runs on Speed**

Like Matrix “03\_runs-leg\_major”, but based on chromatic and whole-tone scales.

**“11 repetitions” – Repetitions without restrictions**

Available for all String and Wind Instruments.

An APP Sequencer based Matrix with Host Tempo Sync activated by default.

**X-Axis Controller (horizontal):** Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

**Y-Axis Controller (vertical):** Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards

For Contrabass Instruments (lowest notes below C2): C6 upwards

The variations available in the Y-Axis are generally sequences assembled from one or 2 different articulations. For Strings, these are spiccato and staccato Performance Repetitions. For Wind Instruments, these are portato and staccato Performance Repetitions.

You can access up to 12 different pre-programmed patterns:

<b>Slot 1</b>	<b>“16th”</b>	16th notes based on one articulation.
<b>Slot 2</b>	<b>“16 2mc”</b>	16th notes based on two different articulations, accents are achieved by using the “longer” articulation.
<b>Slot 3</b>	<b>“16 mc”</b>	16th notes based on two different articulations, accents are achieved by using 2 “longer” articulations.
<b>Slot 4</b>	<b>“up 2”</b>	Sequence of one 8th note and two 16th notes.
<b>Slot 5</b>	<b>“up 1”</b>	Upbeats, sequence of one 8th note and one 16th note.
<b>Slot 6</b>	<b>“16 a3”</b>	Sequence of three 16th notes and one 16th rest.
<b>Slot 7</b>	<b>“triplet”</b>	8th triplets based on one articulation.
<b>Slot 8</b>	<b>“trip mc”</b>	8th triplets based on two different articulations, accents are achieved by using the “longer” articulation.
<b>Slot 9</b>	<b>“trip mc2”</b>	8th triplets based on two different articulations, every quarter beat is accentuated by using the “longer” articulation.
<b>Slot 10</b>	<b>“trip up1”</b>	Triplet Upbeats
<b>Slot 11</b>	<b>“Phrase A”</b>	Example 1 of a combination of different articulations.
<b>Slot 12</b>	<b>“Phrase B”</b>	Example 2 of a combination of different articulations.

## **“12 repetition-Dyn” – Dynamite Dynamics**

Available for all String and Wind Instruments with perf-repetition\_dyn Patches.

An APP Sequencer based Matrix with Host Tempo Sync activated by default.

**X-Axis Controller (horizontal):** Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

The available patterns are based on Performance Repetition Patches. The different volumes of the contained notes are as originally recorded and are NOT triggered by MIDI velocity.

There are up to 9 different volume levels available for every recorded dynamic repetition pattern.

**Y-Axis Controller (vertical):** Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards

For Contrabass Instruments (lowest notes below C2): C6 upwards

The available variations are different successions of crescendo and diminuendo repetition patterns in 16th notes.

<b>Slot 1</b>	<b>“cre-dim”</b>	Sequence of eight 16th notes from pp–ff, followed by eight 16th notes from ff–pp
<b>Slot 2</b>	<b>“dim-cre”</b>	Sequence of eight 16th notes from ff–pp, followed by eight 16th notes from pp–ff
<b>Slot 3</b>	<b>“cr-di sh”</b>	Sequence of four 16th notes from pp–ff, followed by 4 16th notes from ff–pp
<b>Slot 4</b>	<b>“di-cr sh”</b>	Sequence of four 16th notes from ff–pp, followed by four 16th notes from pp–ff
<b>Slot 5</b>	<b>“cre step”</b>	A series of 4 sequences, each with 4 16th notes, starting with pp. Every following sequence starts at the next higher volume from the preceding one.
<b>Slot 6</b>	<b>“dim step”</b>	A series of 4 sequences, each with 4 16th notes, starting with ff. Every following sequence starts with the next lower volume from the preceding one.
<b>Slot 7</b>	<b>“accent A”</b>	A series of 4 sequences, each with 4 16th notes, with an accentuation on the quarter beat and crescendos towards the accentuated notes.
<b>Slot 8</b>	<b>“accent B”</b>	A series of 4 sequence parts, each with 4 16th notes, with an accentuation on the quarter beat and strong crescendos towards the accentuated notes.
<b>Slot 9</b>	<b>“Phrase A”</b>	Example 1 of a combination of different articulations.
<b>Slot 10</b>	<b>“Phrase B”</b>	Example 2 of a combination of different articulations.
<b>Slot 11</b>	<b>“Phrase C”</b>	Example 3 of a combination of different articulations.
<b>Slot 12</b>	<b>“Phrase D”</b>	Example 4 of a combination of different articulations.

## “21 runs+phr key” – Diatonic Runs & Phrases

Available for all String and Wind Instruments.

An APP Sequencer based Matrix with Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7 (except Piccolo Flute: C3–B3).

Change between major and minor harmonic scales by Velocity Switch:

Velocity 0–99: Major scale

Velocity 100–127: Minor harmonic scale

**Attention:** If this Matrix is loaded into an empty preset on its own, the “Scale Select Range” and “Velocity Switch” functions in the APP sequencer (Scale Tab) must be activated.



**X-Axis Controller (horizontal):** Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The major part of the patches used is based on Performance Fast Legatos, and Slurred Fast Legatos for most string ensembles.

**Y-Axis Controller (vertical):** Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards

For Contrabass Instruments (lowest notes below C2): C6 upwards

The available variations in the Y-Axis consist of upwards and downwards runs and phrases in different lengths.

<b>Slot 1</b>	<b>“Oct up”</b>	Diatonic run upwards, 1 octave
<b>Slot 2</b>	<b>“Oct do”</b>	Diatonic run downwards, 1 octave
<b>Slot 3</b>	<b>“Oct ac-u”</b>	Diatonic run upwards, 1 octave, with a slight accelerando
<b>Slot 4</b>	<b>“Oct ac-d”</b>	Diatonic run downwards, 1 octave, with a slight accelerando
<b>Slot 5</b>	<b>“2 Oct up”</b>	Diatonic run upwards, 2 octaves
<b>Slot 6</b>	<b>“2 Oct do”</b>	Diatonic run downwards, 2 octaves
<b>Slot 7</b>	<b>“Quint up”</b>	Diatonic run upwards, 1 fifth
<b>Slot 8</b>	<b>“Quint do”</b>	Diatonic run downwards, 1 fifth
<b>Slot 9</b>	<b>“Phr A up”</b>	Progressive phrase upwards (step by step) with a repetition note, 1 octave.
<b>Slot 10</b>	<b>“Phr A do”</b>	Progressive phrase downwards (step by step) with a repetition note, 1 octave.
<b>Slot 11</b>	<b>“Phr B up”</b>	Progressive “mordent phrase” upwards (step by step), 1 octave.
<b>Slot 12</b>	<b>“Phr B do”</b>	Progressive “mordent phrase” downwards (step by step), 1 octave.

## “22 runs+phr whl” – Whole-tone Runs & Phrases

Like Matrix “21 runs+phr key”, but based on whole-tone scales.

## “23 runs+phr chr” – Chromatic Runs & Phrases

Like Matrix “21 runs+phr key”, but based on chromatic scales.



**“24 runs+phr key ext”**

Like Matrix “21 runs+phr key”, based on fast Marcato Performance Patches.

**Attention:** “Ext” Matrices are only available if the Extended Library of the corresponding Collection is available, and only for instruments that contain marcato and/or spiccato Performance Patches.

**“25 runs+phr whl ext”**

Like Matrix “21 runs+phr key”, based on fast Marcato Performance Patches and whole-tone scales.

**“26 runs+phr chr ext”**

Like Matrix “21 runs+phr key”, based on fast Marcato Performance Patches and chromatic scales.

## “31 perf-trills” – Thrilling Trills

Available for all String and Wind Instruments with Performance Trill Patches.

An APP Sequencer based Matrix with Host Tempo Sync NOT activated by default. Trill speed can be set directly in the APP sequencer’s “Sequence” tab.

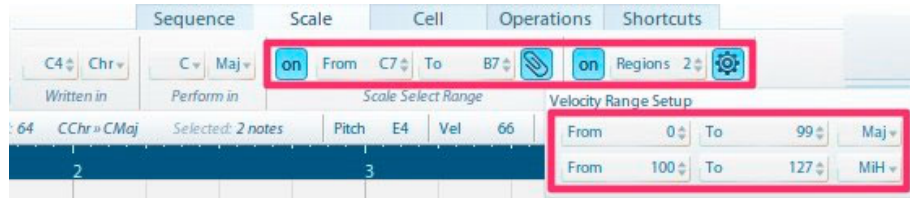
Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7 (except Piccolo Flute: C3–B3).

Change between major and minor harmonic scales by Velocity Switch:

Velocity 0–99: Major Scale

Velocity 100–127: Minor Harmonic Scale

**Attention:** If this Matrix is loaded into an empty preset on its own, the “Scale Select Range” and “Velocity Switch” functions in the APP sequencer (Scale Tab) must be activated.



**X-Axis Controller (horizontal):** Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The major part of the Patches used is based on Performance Trill Patches.

**Y-Axis Controller (vertical):** Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards

For Contrabass Instruments (lowest notes below C2): C6 upwards

The available variations in the Y-Axis consist of trills in different speeds, accelerating or decelerating, plus a variety of mordents and inverted mordents (“Pralltriller”).

Slot 1	“trill”	Trill, middle tempo.
Slot 2	“trill ac”	Trill, accelerating.
Slot 3	“trill fa”	Trill, fast tempo.
Slot 4	“trill ri”	Trill, decelerating.
Slot 5	“mord up1”	Embellishment, starting with upwards note.
Slot 6	“mord do1”	Embellishment, starting with downwards note.
Slot 7	“mord up2”	Embellishment, starting with two upwards notes.
Slot 8	“mord up2+”	Embellishment, starting with two upwards notes (variation).
Slot 9	“mord do2”	Embellishment, starting with two downwards notes.
Slot 10	“mord do2+”	Embellishment, starting with two downwards notes (variation).
Slot 11	“Prall up”	Inverted mordent (“Pralltriller”) upwards
Slot 12	“Prall do”	Inverted mordent (“Pralltriller”) downwards

## "32 arpeggios" – Fantastic Four String Arpeggios

Available for all String Instruments except Double Basses.

APP Sequencer-based Matrix, Host Tempo Sync activated by default.

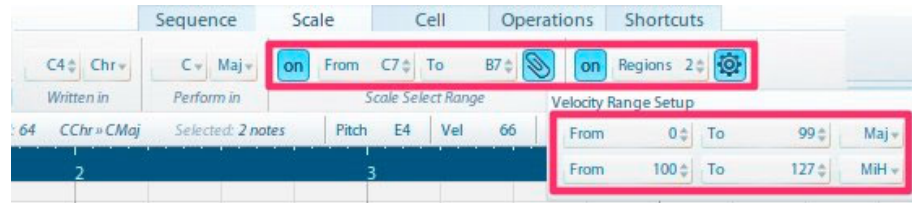
Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:

Velocity 0–99: Major scale

Velocity 100–127: Minor harmonic scale

**Attention:** If this Matrix is loaded into an empty preset on its own, the "Scale Select Range" and "Velocity Switch" in the APP sequencer (Scale Tab) must be activated.



**X-Axis Controller:** Articulations are assigned in the APP Sequencer (Cell Tab)

The major part of the used patches is based on Performance Legato Patches, in combination with Performance Repetitions.

**Y-Axis Controller:** Keyswitches

Only for Bass to Soprano Instruments (lowest note C2): C1 upwards

The available variations in the Y-Axis are the most essential arpeggio chords over 4 strings within a scale (except #12).

<b>Slot 1</b>	<b>"ma3 root"</b>	Arpeggio Sequence, as an example in C major: C–G–E–C
<b>Slot 2</b>	<b>"ma3 inv1"</b>	Arpeggio Sequence, as an example in C major: C–A–E–A
<b>Slot 3</b>	<b>"ma3 inv2"</b>	Arpeggio Sequence, as an example in C major: C–A–F–C
<b>Slot 4</b>	<b>"ma7 root"</b>	Arpeggio Sequence, as an example in C major: C–G–E–B
<b>Slot 5</b>	<b>"ma7 inv1"</b>	Arpeggio Sequence, as an example in C major: C–G–E–A
<b>Slot 6</b>	<b>"ma7 inv2"</b>	Arpeggio Sequence, as an example in C major: C–A–F–E
<b>Slot 7</b>	<b>"ma7 inv3"</b>	Arpeggio Sequence, as an example in C major: C–A–F–D
<b>Slot 8</b>	<b>"ma9 1"</b>	Arpeggio Sequence, as an example in C major: C–G–D–B
<b>Slot 9</b>	<b>"ma9 2"</b>	Arpeggio Sequence, as an example in C major: C–G–E–D
<b>Slot 10</b>	<b>"ma9 3"</b>	Arpeggio Sequence, as an example in C major: C–A–E–D
<b>Slot 11</b>	<b>"Qua–Qui"</b>	Arpeggio Sequence, as an example in C major: C–F–C–F
<b>Slot 12</b>	<b>"augm chr"</b>	Arpeggio Sequence, as an example in C major: C–G#–E–C

## Single Instrument Presets

All Vienna Instruments PRO 2 Single Instrument Presets are contained in the already existing Preset folders. They are placed right before the original Vienna Instruments Presets.

All Cells are saved in “disabled” status (without any loaded samples). If you want your Presets to be loaded with their Cells automatically enabled, just activate “Force Enabled ON/OFF” in the Settings menu.



Use Keyswitches to switch between Matrices. Alternatively, you can also use Program Changes or MIDI Control Changes.

**Matrix switching:** Keyswitches

For Alto and Soprano Instruments (lowest note C3): C2 upwards

For Bass and Tenor Instruments (lowest notes below C3): C6 upwards

For Contrabass Instruments (lowest notes below C2): C5 upwards

Internal reverb is activated!

Tuning Table: 12-tone

Assignment of the most important controllers (pre-configured sliders in Basic View)

Master Volume	CC7
Velocity X-Fade	CC2
Velocity X-Fade ON/OFF switch	CC28
Dyn Range scaler	CC30
Start Offset scaler	CC21
Expression	CC11
Filter	CC24
Tuning	CC26 (scales Humanize Tuning Curves)
Reverb Dry/Wet	CC14
Reverb ON/OFF switch	CC15



Common Matrix assignments (if corresponding Patches are available):

C	01_basic
C#	11 repetitions
D	12 repetition-Dyn
D#	21 runs+phr key
E	22 runs+phr whl
F	23 runs+phr chr
F#	24 runs+phr key ext
G	25 runs+phr whl ext
G#	26 runs+phr chr ext
A	31 perf-trills
A#	32 arpeggios

## Chord Matrices

The Matrix Browser displays Chord Matrices in a new folder above the corresponding instrument group's original Single Instruments folder.

The following Chord Matrix folders are available and will be displayed if the respective licenses are available:

### String MATRIX Files

A Solo Strings	<i>License: Solo Strings</i>
A Solo Strings – mute	<i>License: Solo Strings II</i>
B Chamber Strings	<i>License: Chamber Strings</i>
B Chamber Strings II	<i>License: Chamber Strings II</i>
C Orchestra Strings	<i>Licenses: Orchestra Violins/Violas, Orchestra Celli/Bassi</i>
C Orchestra Strings – mute	<i>Licenses: Orchestra Violins/Violas, Orchestra Celli/Bassi</i>
D Appassionata Strings	<i>License: Appassionata Strings I</i>
D Appassionata Strings – mute	<i>License: Appassionata Strings II</i>

All Chord Matrices are based on APP Sequences and consist of chords with 4 or 5 voices with the following voicing:

1st Voice	Violins 1
2nd Voice	Violins 2
3rd Voice	Violas
4th Voice	Cellos
5th Voice	Double Basses



## Chord Matrices

### “01 Chords (8)”

Available for all instrument groups with Chord Matrices.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Selection of 12 scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:

Velocity 0–99: Major scale

Velocity 100–127: Minor harmonic scale

**X-Axis Controller (horizontal):** Keyswitches to trigger the most important articulations:

C6	Performance Legato
C#6	Portamento (Strings) or Sustain Vibrato (Winds)
D6	Staccato
D#6	Détaché (Strings) or Portato short (Winds)
E6	Sustain with vibrato (Strings) or Sustain without vibrato (Winds)
F6	Fortepiano (Appassionata Strings: Sforzando)
F#6	Sforzando
G6	Performance Repetition (Legato)
G#6	Performance Repetition Portato (Solo Strings: Staccato)
A6	Performance Repetition Spiccato (Strings) or Staccato (Winds)
A#6	Tremolo (Strings) or Flutter Tongue (Winds)
B6	Pizzicato (Strings) or Sforzatissimo (Winds)

**Y-Axis Controller (vertical):** Keyswitches for a choice of different chord inversions and additional chords like diminished, augmented and ninth chords

With all variations, the soprano voice plays the root note.

C1	“ma3 root”	Triad, bass note on the root note
C#1	“ma3 inv1”	Triad, bass note on the third
D1	“ma3 inv2”	Triad, bass note on the fifth
D#1	“ma7 root”	Seventh chord, bass note as root
E1	“ma7 inv1”	Seventh chord, bass note on the third
F1	“ma7 inv2”	Seventh chord, bass note on the fifth
F#1	“ma7 inv3”	Seventh chord, bass note on the seventh
G1	“ma9”	Ninth chord
G#1	“dim7 chr”	Diminished Seventh chord (chromatic transposition)
A1	“augm chr”	Augmented Triad (chromatic transposition)
A#1	“root + 5th”	Chord without third
B1	“5th 3x”	Chord in steps of fifths

### “02 Chords (3)”

Like Matrix “01 Chords (8)”, soprano voice on the third

**“03 Chords (5)”**

Like Matrix “01 Chords (8)”, soprano voice on the fifth

**“04 Chords (7+8)”**

Like Matrix “01 Chords (8)”, soprano voice on the octave or on the seventh (with all Seventh chords)

**“05 Chords (8) Ext”**

Like Matrix “01 Chords (8)”, partly based on alternative articulations in the X-Axis (if Extended Library content is available).

- C6 Performance Trills
- C#6 Performance Marcato
- D6 Performance Spiccato (Strings) or Single Note Staccato (Winds)
- D#6 Détaché long (Strings) or Portato medium (Winds)
- E6 Sustain without vibrato
- F6 Short Crescendos & Diminuendos (ca. 2 seconds), switch with A/B Switch
- F#6 pfp (crescendo – diminuendo)
- G6 Performance Repetition Legato (except Appassionata Strings: pfp long)
- G#6 Performance Repetition Portato (except Appassionata Strings: Performance sfz)
- A6 Performance Repetition Harsh (Strings) or Staccato (Winds)
- A#6 Harmonics (Strings except Appassionata Strings) or Flutter tongue (Winds)
- B6 (Snap) Pizzicato (Strings) or Sforzatissimo (Winds)

**“06 Chords (3) Ext”**

Like Matrix “05 Chords (8) Ext”, soprano voice on the third

**“07 Chords (5) Ext”**

Like Matrix “05 Chords (8) Ext”, soprano voice on the fifth

**“08 Chords (7+8) Ext”**

Like Matrix “05 Chords (8) Ext”, soprano voice on the octave or on the seventh (with all seventh chords)



**“11 Cho-rep (8)”**

Available for all instrument groups with Chord Matrices.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:

Velocity 0–99: Major scale

Velocity 100–127: Minor harmonic scale

**X-Axis Controller (horizontal):** Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

**Y-Axis Controller (vertical):** Keyswitches for a choice between different chord inversions and additional chords like diminished, augmented and ninth chords

With all variations, the soprano voice plays the root note; all sequences are based on a 16th-note repetition pattern chord.

C1	“ma3 root”	Triad, bass note on the root note
C#1	“ma3 inv1”	Triad, bass note on the third
D1	“ma3 inv2”	Triad, bass note on the fifth
D#1	“ma7 root”	Seventh chord, bass note as root
E1	“ma7 inv1”	Seventh chord, bass note on the third
F1	“ma7 inv2”	Seventh chord, bass note on the fifth
F#1	“ma7 inv3”	Seventh chord, bass note on the seventh
G1	“ma9”	Ninth chord
G#1	“dim7 chr”	Diminished Seventh chord (chromatic transposition)
A1	“augm chr”	Augmented Triad (chromatic transposition)
A#1	“root + 5th”	Chord without third
B1	“5th 3x”	Chord in steps of fifths

**“12 Cho-rep (3)”**

Like Matrix “11 Cho-rep (8)”, soprano voice on the third

**“13 Cho-rep (5)”**

Like Matrix “11 Cho-rep (8)”, soprano voice on the fifth

**“14 Cho-rep (7+8)”**

Like Matrix “11 Cho-rep (8)”, soprano voice on the octave or on the seventh (with all seventh chords)

**“15 Cho-repDyn (8)”**

Available for all instrument groups with Chord Matrices.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:

Velocity 0–99: Major scale

Velocity 100–127: Minor harmonic scale

**X-Axis Controller (horizontal):** Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

**Y-Axis Controller (vertical):** Keyswitches for a choice between different chord inversions and additional chords like diminished, augmented and ninth chords

With all variations, the soprano voice plays the root note; all sequences are based on a 16th-note repetition pattern chord with dynamic changes, and contain eight 16ths from pp–ff and eight 16ths from ff–pp.

C1	“ma3 root”	Triad, bass note on the root note
C#1	“ma3 inv1”	Triad, bass note on the third
D1	“ma3 inv2”	Triad, bass note on the fifth
D#1	“ma7 root”	Seventh chord, bass note as root
E1	“ma7 inv1”	Seventh chord, bass note on the third
F1	“ma7 inv2”	Seventh chord, bass note on the fifth
F#1	“ma7 inv3”	Seventh chord, bass note on the seventh
G1	“ma9”	Ninth chord
G#1	“dim7 chr”	Diminished Seventh chord (chromatic transposition)
A1	“augm chr”	Augmented Triad (chromatic transposition)
A#1	“root + 5th”	Chord without third
B1	“5th 3x”	Chord in steps of fifths

**“16 Cho-repDyn (3)”**

Like Matrix “15 Cho-repDyn (8)”, soprano voice on the third

**“17 Cho-repDyn (5)”**

Like Matrix “15 Cho-repDyn (8)”, soprano voice on the fifth

**“18 Cho-repDyn (7+8)”**

Like Matrix “15 Cho-repDyn (8)”, soprano voice on the octave or on the seventh (with all seventh chords)

**“21 Cho-Run key”**

Available for all Instrument Groups with Chord Matrices.

Play range: C3–C5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:

Velocity 0–99: Major scale

Velocity 100–127: Minor harmonic scale

**X-Axis Controller (horizontal):** Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The main part of the used Patches is based on Performance Fast Legatos, and Slurred Fast Legatos for most String ensembles.

**Y-Axis Controller (vertical):** Keyswitches for a choice between different runs upwards and downwards in different lengths and chord combinations. (Switches G#1–B1 are not available for the chord groups of Trumpets, Horns and Trombones due to the limited play range of these instrument groups).

C1	“up Octav”	Octave run upwards, chord in unison in octaves
C#1	“do Octav”	Octave run downwards, chord in unison in octaves
D1	“up Oc+Qi”	Octave run upwards, chord in fifths and octaves
D#1	“do Oc+Qi”	Octave run downwards, chord in fifths and octaves
E1	“up Ch-sh”	Fourth run, crossed voices: upper voices upwards, lower voices downwards
F1	“do Ch-sh”	Fourth run, crossed voices: upper voices downwards, lower voices upwards
F#1	“up Ch-me”	Octave run, crossed voices: upper voices upwards, lower voices downwards
G1	“do Ch-me”	Octave run, crossed voices: upper voices downwards, lower voices upwards
G#1	“up Ch-lo”	Run over 2 octaves, crossed voices: upper voices upwards, lower voices upwards and downwards
A1	“do Ch-lo”	Run over 2 octaves, crossed voices: upper voices downwards, lower voices downwards and upwards
A#1	“up solo”	Run over 4 octaves in unison, upwards with changing instrumentation
B1	“do solo”	Run over 4 octaves in unison, downwards with changing instrumentation

**“22 Cho-Run whl”**

Like Matrix “21 Cho-Run key”, based on whole-tone scales

**“23 Cho-Run chr”**

Like Matrix “21 Cho-Run key”, based on chromatic scales

**“24 Cho-Run key Ext”**

Like Matrix “21 Cho-Run key”, based on fast Marcato Performance Patches.

**Attention:** “Ext” Matrices are only available if the corresponding Instrument’s Extended Library is available, and only for instruments that contain marcato and/or spiccato Performance Patches.

**“25 Cho-Run whl Ext”**

Like Matrix “21 Cho-Run key”, based on fast Marcato Performance Patches and whole-tone scales.

**“26 Cho-Run chr Ext”**

Like Matrix “21 Cho-Run key”, based on fast Marcato Performance Patches and chromatic scales.

**“31 Cho-Phr key”**

Available for all instrument groups with Chord Matrices.

Play range: C3–C5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:

Velocity 0–99: Major scale

Velocity 100–127: Minor harmonic scale

**X-Axis Controller (horizontal):** Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The main part of the Patches used is based on Performance Fast Legatos.

**Y-Axis Controller (vertical):** Keyswitches for a choice between different phrases, upwards and downwards in different chord combinations.

C1	“up Octav”	Incremental octave phrase upwards with repetition note, chord in unison, arranged in octaves
C#1	“do Octav”	Incremental octave phrase downwards with repetition note, chord in unison, arranged in octaves
D1	“up Oc+Ch”	Incremental octave phrase upwards with repetition note, arranged in triads
D#1	“do Oc+Ch”	Incremental octave phrase downwards with repetition note, arranged in triads
E1	“up Phr”	Phrase upwards, starting with repetition note, chord in unison, arranged in octaves
F1	“do Phr”	Phrase downwards, starting with repetition note, chord in unison, arranged in octaves
F#1	“up Octav”	Incremental octave phrase upwards with changed note (cambiata), chord in unison, arranged in octaves
G1	“do Octav”	Incremental octave phrase downwards with changed note (cambiata), chord in unison, arranged in octaves
G#1	“up Oc+Ch”	Incremental octave phrase upwards with changed note (cambiata), arranged in triads
A1	“do Oc+Ch”	Incremental octave phrase downwards with changed note (cambiata), arranged in triads
A#1	“up Phr”	Phrase upwards starting with changed note (cambiata), chord in unison, arranged in octaves
B1	“do Phr”	Phrase downwards with changed note (cambiata) downwards, chord in unison, arranged in octaves

**“32 Cho-Phr whl”**

Like Matrix “31 Cho-Phr key”, based on whole-tone scales.

**“33 Cho-Phr chr”**

Like Matrix “31 Cho-Phr key”, based on chromatic scales.

**“34 Cho-Phr key Ext”**

Like Matrix “31 Cho-Phr key”, based on fast Marcato Performance Patches.

**Attention:** “Ext” Matrices are only available if the corresponding Instrument’s Extended Library is available, and only for instruments that contain marcato and/or spiccato Performance Patches.

**“35 Cho-Phr whl Ext”**

Like Matrix “31 Cho-Phr key”, based on fast Marcato Performance Patches and whole-tone scales.

**“36 Cho-Phr chr Ext”**

Like Matrix “31 Cho-Phr key”, based on fast Marcato Performance Patches and chromatic scales.

**“41 Cho-trem”**

Finger tremolos available for all String and Woodwind groups with Chord Matrices and Performance Trill Patches. (Extended Library Content required!)

An APP Sequencer based Matrix with Host Tempo Sync NOT activated by default. Trill speed can be set directly in the APP sequencer’s “Sequence” tab.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:

Velocity 0–99: Major scale

Velocity 100–127: Minor harmonic scale

**X-Axis Controller (horizontal):** Articulations are assigned in the APP Sequencer (Cell Tab).

**Y-Axis Controller (vertical):** Keyswitches for a choice of different chord inversions and additional chords like diminished, augmented and ninth chords.

## Pattern Matrices

Four variations, only available for Strings:

**Theme 01a Leg**

**Theme 01b Marc**

**Theme 01c Walk**

**Theme 01d Arp**

All four matrices are based on 2 bars of looped musical building blocks. These building blocks are designed as examples to show the possibilities of the APP Sequencer.

Make use of the different musical structures of this pattern also with different lengths: half a bar, a whole bar or 2 bars.

Play range: C3–B5 (depending on the Instrument Group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:

Velocity 0–99: Major Scale

Velocity 100–127: Minor Harmonic Scale

**X-Axis Controller:** Articulations are assigned in the APP Sequencer (Cell Tab).

**Y-Axis Controller:** Keyswitches to choose between different chord inversions.

## Chord Presets

The Vienna Instruments PRO 2 Chord Presets are located in a folder above the original Single Instruments folder in the Preset Browser of the corresponding instrument group.

All Cells are saved in “disabled” status (without any loaded samples). To load your Presets with all cells automatically enabled, simply activate “Force Enabled ON/OFF” in the Settings menu.

Use Keyswitches to switch between Matrices. Alternatively, you can also use Program Changes or MIDI Control Changes. Internal Reverb is activated!

Tuning Table: 12-tone

Assignment of the most essential controllers (pre-configured sliders in Basic View)

Master Volume	CC7
Velocity X-Fade	CC2
Velocity X-Fade ON/OFF switch	CC28
Dyn Range Scaler	CC30
Start Offset Scaler	CC21
Expression	CC11
Filter	CC24
Tuning	CC26 (scales Humanize Tuning Curves)
Reverb Dry/Wet	CC14
Reverb ON/OFF switch	CC15

## Preset “Chords Std Set”

Contains the most important 11 Chord Matrices, based mostly on Standard Library Content.

C2	01 Chords (8)
C#2	02 Chords (3)
D2	03 Chords (5)
D#2	04 Chords (7+8)
E2	11 Cho-rep (8)
F2	12 Cho-rep (3)
F#2	13 Cho-rep (5)
G2	14 Cho-rep (7+8)
G#2	21 Cho-Run key
A2	22 Cho-Run whl
A#2	23 Cho-Run chr

## Preset “Chords Full Set”

Contains all available Chord Matrices (except Phrase Matrices), therefore based on Full Library Content.

If you intend to use all matrices via Keyswitches, you will need a second keyboard for playing live!

C2 01 Chords (8)  
 C#2 02 Chords (3)  
 D2 03 Chords (5)  
 D#2 04 Chords (7+8)  
 E2 11 Cho-rep (8)  
 F2 12 Cho-rep (3)  
 F#2 13 Cho-rep (5)  
 G2 14 Cho-rep (7+8)  
 G#2 21 Cho-Run key  
 A2 22 Cho-Run whl  
 A#2 23 Cho-Run chr

C ~ 05 Chords (8) Ext  
 C# ~ 06 Chords (3) Ext  
 D ~ 07 Chords (5) Ext  
 D# ~ 08 Chords (7+8) Ext  
 E ~ 15 Cho-repDyn (8)  
 F ~ 16 Cho-repDyn (3)  
 F# ~ 17 Cho-repDyn (5)  
 G ~ 18 Cho-repDyn (7+8)  
 G# ~ 24 Cho-Run key Ext  
 A ~ 25 Cho-Run whl Ext  
 A# ~ 26 Cho-Run chr Ext

## Pattern Preset Theme 01

Contains all four Pattern Matrices, only available for Strings.

C2 Theme 01a Leg  
 C#2 Theme 01b Marc  
 D2 Theme 01c Walk  
 D#2 Theme 01d Arp